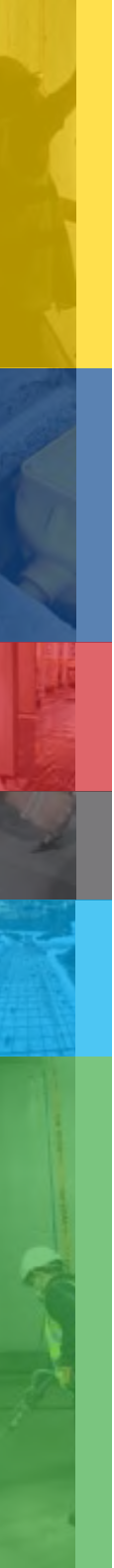


OCTOBER 25

DELTA PRODUCT CATALOGUE

www.deltamembranes.com
01992 523 523



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WELCOME TO OUR PRODUCT CATALOGUE!

Delta Membrane Systems Limited is a manufacturer and provider of specialist structural waterproofing solutions, covering Types A, B and C waterproofing, combination waterproofing, damp proofing, basement drainage, flood resilience and ground gas protection.



Delta's comprehensive product range includes BBA certified solutions which are suitable for all projects including (but not limited to): commercial/residential structures, new build/ refurbishment projects, housing developments and civil infrastructure.

Delta unites innovative products with highly skilled waterproofing design specialists. Our in-house team of technical consultants support our customers by providing comprehensive, reliable, and expert advice identifying, and mitigating risk and establishing opportunities for added value.



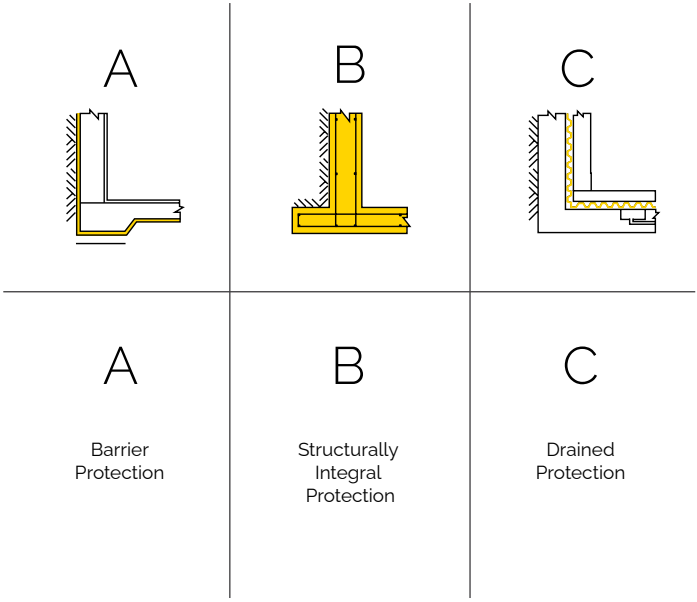
We champion gender equality in the waterproofing sector through our support for the Women of Waterproofing Networking Group. This independent group aims to inspire, retain, and attract females in the industry.

Contact us on 01992 523 523 or email info@deltamembranes.com

TYPES OF WATERPROOFING

There are many different approaches to structural waterproofing. The construction methods will in part contribute to the specification of types of waterproofing systems and may also determine the overall structural waterproofing strategy.

Structural Waterproofing falls into 3 types



NBS Source
Manufacturer Partner

NBS Source



SCHOOLS



COMMERCIAL & RESIDENTIAL BUILDINGS



UNDERGROUND CAR PARKING



TUNNELLING



LEISURE FACILITIES



RETAIL UNITS & WAREHOUSES





LISTED BUILDINGS

ARCHIVES/LIBRARIES/VAULTS/MUSEUMS

BELOW GROUND WATERPROOFING SOLUTIONS



HOSPITALS



INSULATED FORMWORK CONSTRUCTION



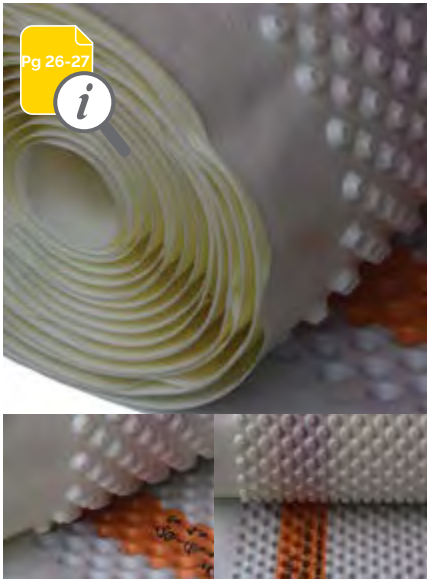
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DELTA

Installing a Delta Membrane System offers complete protection to structures from ground water ingress and contaminates. Our products comply with British Standards 8102:2022, 8485:2015+A1:2019, 85500:2025 and are BBA Accredited.

Our projects include commercial and residential developments, new-build and refurbishment projects and civil infrastructure.

INTERNAL WATERPROOFING



MS 500 FIRE RETARDANT

An 8mm studded cavity drain membrane with a Euroclass fire rating of B-S2, d0 (EN 13501-1:2018) suitable for use on internal faces of walls, floors and vaulted ceilings.

- 8mm studded profile
- Euroclass fire rating B-S2, d0
- Compressive Strength: >250 kN/m²
- Drainage capacity: 2.25 L/S m²

DMS 850	**2.4m x 20m**



MS 500

An 8mm studded cavity drain membrane suitable for use on internal faces of walls, floors and vaulted ceiling as part of a water management system.

- 8mm studded profile
- Suitable for new, existing and retrofit projects
- Compressive Strength: >250 kN/m²
- Drainage capacity: 2.25 L/S m²

DMS 005	**2m x 20m**
DMS 007	**2.4m x 20m**

INTERNAL WATERPROOFING



MS 20

20mm studded cavity drain membrane suitable for use on internal floors or on walls where higher drainage capacity is required.

- 20mm studded profile
- Suitable for higher volumes of water penetration
- Compressive Strength: >150 kN/m²
- Drainage capacity: 10 L/S m²

DMS 009	**2m x 20m**



FM

4mm low profile studded membrane specifically designed for floor applications to combat capillary dampness and contamination.

- 4mm studded profile
- Suitable for use on damp proofing walls, floors and vaulting ceilings
- Compressive Strength: 700 kN/m²
- Fast Track installation

DMS 023	**2m x 20m**

INTERNAL WATERPROOFING



PT

8mm studded HDPE membrane with a heat welded polypropylene mesh. Suitable as an impermeable damp proofing base for plaster or shotcrete (with suitable reinforcement).

- 8mm studded profile
- An effective barrier to the transmission of salts, liquid water and water vapour
- Compressive Strength: >70 kN/m²
- Drainage capacity: 5 L/S m²

DMS 001	**1.5m x 10m**
DMS 002	**2m x 20m**



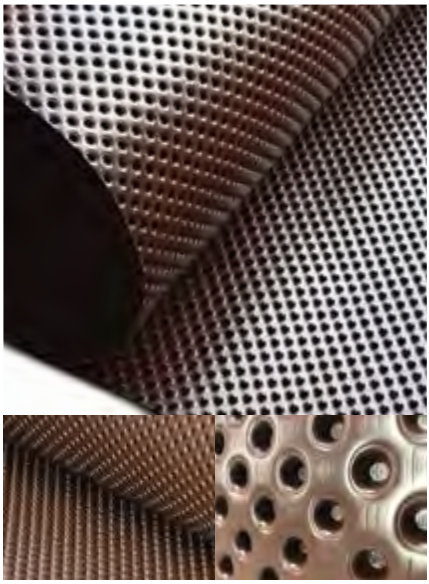
PT 3MM

3mm mesh membrane developed specially for addressing the issue of damp and/or contaminated walls.

- 3mm studded profile
- Provides key for plaster, renders or dab fix
- Drainage capacity: 2 L/S m² / Air volume between studs 2 L/m²
- Resistant to chemicals, root penetration, rot proof and neutral towards drinking water

DMS 030	**1m x 20m**
DMS 027	**2m x 20m**

INTERNAL WATERPROOFING



AT 800

AT 800 is an innovative 9mm Type C membrane which satisfies BS 8102:2022 and BS 8485:2015+A1:2019, table 7 achieving waterproofing and ground gas protection simultaneously.

- 9mm studded profile
- Conforms to BS 8102:2022 and BS 8485:2015+A1:2019, Table 7
- Air volume between studs approx. 7.9 L/m^2
- Ideal for complex substructures

DMS 026	2m x 20m



JOIST BOOTS / TOP HATS

Solving long standing problems, Delta "boots" steel joist end "top hats" make a real difference in structural waterproofing situations where steels are embedded in walls, in below ground sections of structures. Available in any size, as we make these to order with a 3-5 day turn around.

- Made to order
- Protects Steel Joists
- Prevents Steel Joists from rusting
- Protects embedded Timber Joists from the effects of moisture, wet and dry rot and insect infection
- Continuous waterproofing when used in conjunction with waterproofing solutions

SPECIAL ORDER	

INTERNAL MEMBRANES ANCILLARIES



ROPE

A dependable sealing for Delta fixing plugs which do not have grommets. Delta Rope is ideal for sealing joints in MS20 and in stud to stud joints.

DMS 011	**4.75m x 10mm**



DOUBLE SIDED TAPE

This strong and durable double sided butyl tape is ideal for sealing membranes together at overlaps/adjacent seals.

DMS 012	**22.5m x 28mm**



CORNER STRIP

A waterproof, firm, and lasting single-sided sealing tape, typically used for sealing and connecting membranes on joints/wall floor junction or overlap.

DMS 020	**150mm x 20m**



DELTA ULTRA TAPE

Delta Ultra Tape is a durable butyl single sided tape with a Euroclass fire rating of B-S2, d0 (EN 13501-1:2018).

Delta Ultra Tape is a flame retardant over-tape, for use with Delta MS 500 Fire Retardant and Delta Type C Membranes.

DMS 853	**150mm x 20m**



FLEECE TAPE

Designed for use with Delta PT membranes. Suitable for joint sealing, detailing around service penetrations where Delta PT membranes have been installed.

DMS 238	**100mm x 20m**



PT PROFILE STRIP

Delta PT Profile Strip is used in applications where a Delta PT membrane is installed above ground.

DMS 016	**2m length**

INTERNAL MEMBRANES ANCILLARIES



DELTA PLUGS

Provides a fixing point for Delta MS 500 membrane. Delta fixing plugs have a centrally located internal shank which accommodates a 5.5mm dia./size 12 screw at a maximum depth of 30mm.

DMS 014	Box of 100



FLEXI-DRI PLUS PLUGS

Watertight fixing plugs that have a central drive shank with a pre-fitted sealing grommet. Ideally suited for installation into softer more friable substrates. These plugs have a centrally located internal shank that can accommodate a 5mm dia./size 10 screw at a maximum depth of 30mm.

DMS 239	Box of 100



QWIKSEAL PLUGS

A watertight self-sealing fixing plug suitable for MS 500 & PT membranes. These plugs have a centrally located internal shank that can accommodate a 5mm dia./size 10 screw at a maximum depth of 30mm.

DMS 131	Box of 100



ULTRA FIX PLUGS

Delta Ultra Fix plugs are specifically designed to fix and secure Delta MS 500 Fire Retardant Membrane*. Delta Ultra Fix Plugs offer a tailor-made maximum hold for ease of installation. These plugs have a centrally located internal shank that can accommodate a 5mm dia./size 10 screw at a maximum depth of 30mm.

DMS 051	*Box of 200
DMS 050	Box of 200 with Grommets



PT PLUGS

A watertight self-sealing fixing plug which works in harmony with PT or PT 3mm membranes. Delta PT Plugs are available with grommets. Grommets allow for a watertight, self-sealing finish.

DMS 015-1	Box of 200
DMS 133-1	Box of 200 with Grommets



GL2 BRACKETS

GL2 Drylining Bracket/Gyplyner brackets. This adjustable metal bracket helps create a firm & rigid background when lining old masonry walls. The clever but simple bracket is pre-drilled for quick fitting, and is designed to be easily bent to provide extra adjustment.

DMS 049	Box of 100

INTERNAL MEMBRANES ANCILLARIES



DELTA THAN

Delta Than is a superior waterproof mastic which is suitable for sealing joints and detailing.

DMS 019	**310ml**



DELTA FIX ADHESIVE

A two-component anchoring injection system in a 1:1 ratio for bonding & anchoring most building materials e.g. brick, stone, steel, mortar & timber.

DMS 018	**400ml (fix adhesive)**
DMS 044	**Fix Mixer Nozzles**
DMS 043	**Twin Cartridge Applicator**



DRILL BITS

Fully ground, straight shank drill bit.

DMS 076	**8mm**
DMS 075	**9mm (Suitable for Ultra Fix Plugs)**
DMS 041	**10mm (Suitable for Quikseal & Flexi-dri Plus Plugs)**



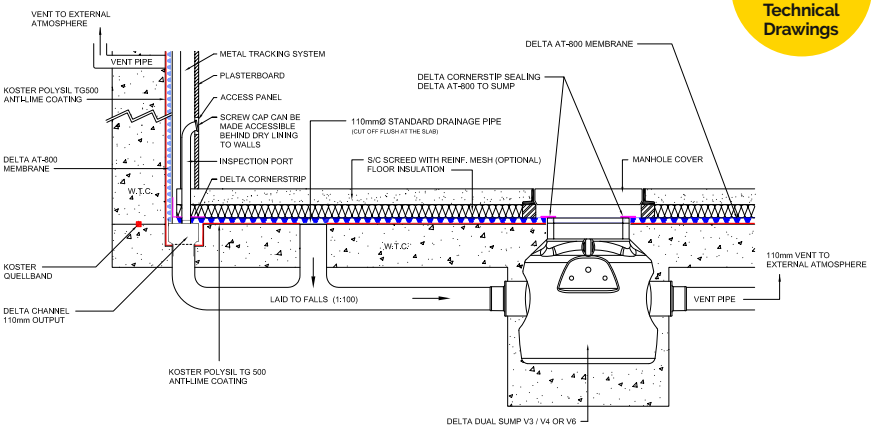
PUDDLE FLANGE

A Delta Puddle Flange offers a waterproof seal when installing Delta Modular Drainage or other service pipes and ducts though below ground structural elements. A puddle flange is recommended to prevent ground water percolating through the 110mm pipe work/RC slab interfaces. Delta puddle flanges are available in sizes from 32mm up to 160mm

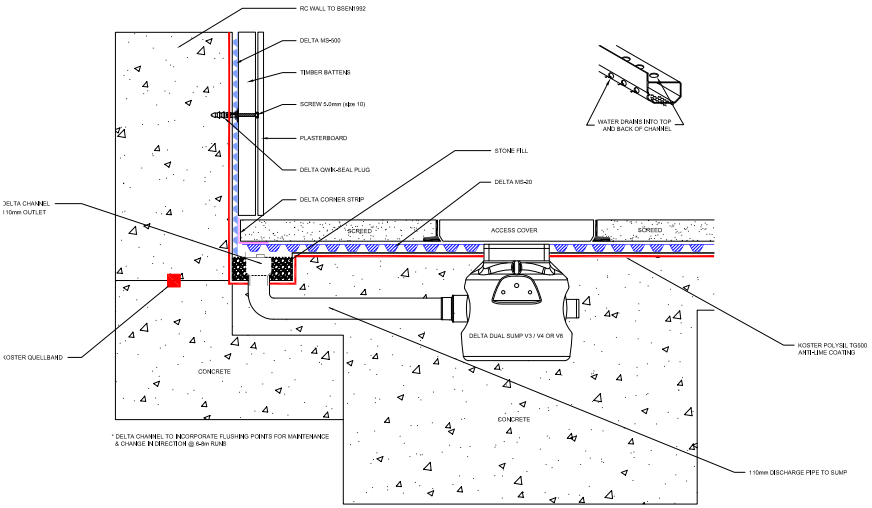
DMS 161	**110mm (various sizes available from 32mm to 160mm)**

MODULAR DRAINAGE TO SUMP

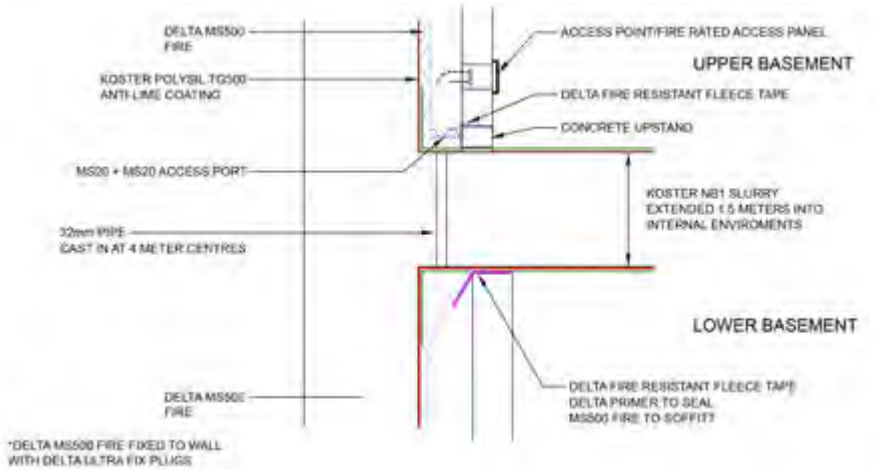
Technical Drawings



RECESSED CHANNEL - SUMP DETAIL



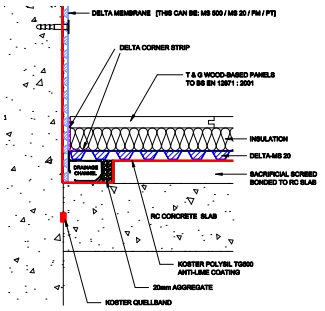
INTERMEDIATE SLAB DRAINAGE DETAIL



SACRIFICIAL SCREED

OPTION 1

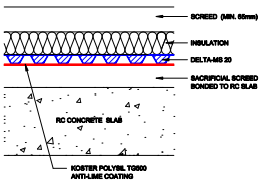
DRAINED PROTECTION WALL AND FLOOR APPLICATION
- WITH DRAINAGE CHANNEL ON SLAB
SACRIFICIAL SCREED / T & G FLOOR PANELS



OPTION 2

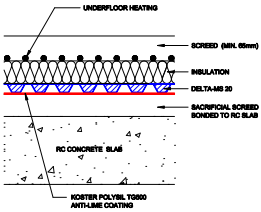
DRAINED PROTECTION WALL AND FLOOR APPLICATION
- WITH DRAINAGE CHANNEL ON SLAB
SACRIFICIAL SCREED / SCREED FINISH

ACCESS / FLUSHING POINTS MUST BE INCLUDED FOR MAINTENANCE WITHIN THE DELTA CHANNEL
- CHANGE OF DIRECTION
- EVERY 6 - 8M ON STRAIGHT RUNS



OPTION 3

DRAINED PROTECTION WALL AND FLOOR APPLICATION
- WITH DRAINAGE CHANNEL ON SLAB
SACRIFICIAL SCREED / SCREED WITH UNDERFLOOR HEATING





TYPE C WATERPROOFING & GROUND GAS PROTECTION



COMBINED SYSTEMS



DELTA PT INSTALLATION - LONDON UNDERGROUND STATION



ON SITE SUPPORT



SUMP PUMP REBATE - TYPE C SYSTEM



DAMP PROOFING & WATERPROOFING

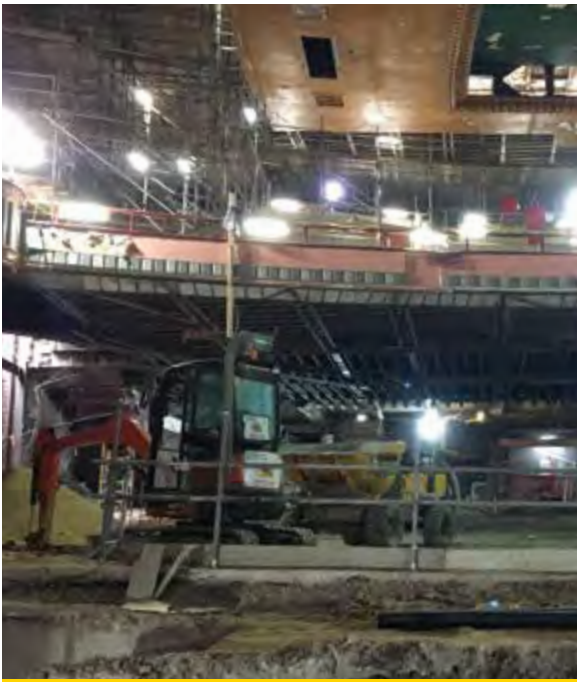
INTERNAL WATERPROOFING SOLUTIONS



FIRE RETARDANT



DELTA MS 500 INSTALLATION



STRUCTURES OF HISTORICAL IMPORTANCE



BASEMENT DRAINAGE



EARTH RETAINING STRUCTURES



LIGHTWELL WATERPROOFING



HERITAGE WATERPROOFING



COMMERCIAL WATERPROOFING

ROUGH GUIDE ESTIMATING ANCILLARY PRODUCTS

MEMBRANE	APPLICATION	WORKING AREA	TAPE	PLUGS/FIXINGS
Delta MS 500 2.4m x 20m 8mm stud DMS 007	Wall	46.6m²	Delta Tape 1 x Roll	5 Plugs per m² Fixed at 600mm Centres Approximately: 2 x boxes of Delta Plugs/Qwikseal Plugs 1 x box of Delta Ultra Fix Plugs
Delta MS 500 2.4m x 20m 8mm stud DMS 007	Floor* *Ensure acceptable installation by using a suitable void former and meeting additional drainage requirements.	46.6m²	Delta Tape 1 x Roll	N/A
Delta MS 500 2m x 20m 8mm stud DMS 005	Wall	38. 6m²	Delta Tape 1 x Roll	5 Plugs per m² Fixed at 600mm Centres Approximately: 2 x boxes of Delta Plugs/Qwikseal Plugs 1 x box of Delta Ultra Fix Plugs
Delta MS 500 Fire Retardant 2.4m x 20m 8mm stud DMS 850	Wall	46.6m²	Delta Tape 1 x Roll	5 Plugs per m² Fixed at 600mm Centres Approximately: 1 x box of Delta Ultra Fix Plugs
Delta MS 20 2m x 20m 20mm stud DMS 009	Floor and for higher volumes of water penetration	38m²	N/A	N/A
Delta PT 1.5m x 10m 8mm stud DMS 001	Wall	13m²	Delta Tape 1 x Roll	18 Plugs per m² Fixed at 250mm Centres Approximately: 1 x box of PT Plugs/Delta Ultra Fix Plugs

All information is provided as an estimate. For site-specific assistance, please contact Delta's Technical Team at info@deltamembranes.com or call 01992 523 523.

CORNERSTRIP	ROPE	PROFILE	OTHER PRODUCTS
N/A	Delta Rope 3 x Rolls when used with Delta Plugs Not required for Delta Qwikseal Plugs Only required for Ultra Fix Plugs without grommets	N/A	Optional Ancillary Delta Mastic as required for specific detailing if required. Expanding Flexi-Dri Plus Plug can be used for soft and/or friable substrates.
Delta Cornerstrip 1 x Roll per 20 linear metre(s) of membrane	Calculate Delta Rope by dividing the linear metres from floor/wall joints by 4.75.	N/A	Optional Ancillary Delta Mastic as required for specific detailing.
N/A	Delta Rope 2 x Rolls when used with Delta Plugs Not required for Delta Qwikseal Plugs Only required for Ultra Fix Plugs without grommets	N/A	Optional Ancillary Delta Mastic as required for specific detailing. Expanding Flexi-Dri Plus Plug can be used for soft and/or friable substrates.
N/A	Delta Rope 4 x Rolls when used with Delta Ultra Fix Plugs without grommet	N/A	N/A
Delta Cornerstrip 1 x Roll designed for use as an overseal joint	Delta Rope 5 x Rolls when used for double sealing Delta MS 20	N/A	N/A
N/A	Delta Rope 2 x Rolls when used with Delta PT Plugs without grommets	When required PT Profile Strips (supplied 2m length) can be placed top and/or bottom of membranes or both top and bottom. Not applicable if alternative ventilation system is used. Not applicable if used as part of a cavity drained system.	If required Delta Mastic. For above-ground applications, Delta Mastic can be used as an alternative for Delta tape. Delta Fleece Tape for internal and external corners. Expanding Flexi-Dri Plus Plug can be used for soft and/or friable substrates.

ROUGH GUIDE ESTIMATING ANCILLARY PRODUCTS

MEMBRANE	APPLICATION	WORKING AREA	TAPE	PLUGS/FIXINGS
Delta PT 2m x 20m 8mm stud DMS 002	Wall	36m²	Delta Tape 1 x Roll	18 Plugs per m² Fixed at 250mm Centres Approximately: 3x boxes of Delta PT Plugs/ Delta Ultra Fix Plugs
Delta PT 1m x 20m 3mm stud DMS 030	Wall	18m²	Delta Tape 1 x Roll	18 Plugs per m² Fixed at 250mm Centres Approximately: 2 x box of Delta PT Plugs/ Delta Ultra Fix Plugs
Delta PT 2m x 20m 3mm stud DMS 027	Wall	36m²	Delta Tape 1 x Roll	18 Plugs per m² Fixed at 250mm Centres Approximately: 3 x boxes or PT Plugs/Delta Ultra Fix Plugs

All information is provided as an estimate. For site-specific assistance, please contact Delta's Technical Team at info@deltamembranes.com or call 01992 523 523.

CORNERSTRIP	ROPE	PROFILE	OTHER PRODUCTS
N/A	Delta Rope 4 x Rolls when used with Delta PT Plugs/Delta Ultra Fix Plugs without grommets	When required PT Profile Strips (supplied 2m length) can be placed top and/or bottom of membranes or both top and bottom. Not applicable if alternative ventilation system is used. Not applicable if used as part of a cavity drained system.	If required Delta Mastic. For above-ground applications, Delta Mastic can be used as an alternative for Delta tape. Delta Fleece Tape for internal and external corners. Expanding Flexi-Dri Plus Plug can be used for soft and/or friable substrates.
N/A	Delta Rope 2 x Rolls when used with Delta PT Plugs without grommets	When required PT Profile Strips (supplied 2m length) can be placed top and/or bottom of membranes or both top and bottom. Not applicable if alternative ventilation system is used. Not applicable if used as part of a cavity drained system.	If required Delta Mastic. For above-ground applications, Delta Mastic can be used as an alternative for Delta tape. Delta Fleece Tape for internal and external corners. Expanding Flexi-Dri Plus Plug can be used for soft and/or friable substrates.
N/A	Delta Rope 4 x Rolls when used with Delta PT Plugs without Grommets	When required PT Profile Strips (supplied 2m length) can be placed top and/or bottom of membranes or both top and bottom. Not applicable if alternative ventilation system is used. Not applicable if used as part of a cavity drained system.	If required Delta Mastic. For above-ground applications, Delta Mastic can be used as an alternative for Delta tape. Delta Fleece Tape for internal and external corners. Expanding Flexi-Dri Plus Plug can be used for soft and/or friable substrates.

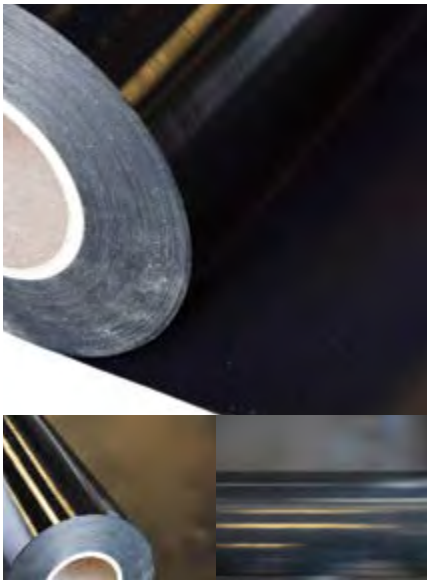
ROUGH GUIDE ESTIMATING ANCILLARY PRODUCTS

MEMBRANE	APPLICATION	WORKING AREA	TAPE	PLUGS/FIXINGS
Delta AT 800 2m x 20m 9mm stud DMS 026	Wall	38.6m²	Gas Tape 50 1 x Roll	5 Plugs per m² Fixed at 600mm Centres Approximately: 2 x boxes of Delta Plugs/ Qwikseal Plugs 1 x box Delta Ultra Fix Plugs
Delta AT 800 2m x 20m 9mm stud DMS 026	Floor	38.6m²	Gas Tape 50 2 x Rolls	N/A
Delta FM 2m x 20m 4mm stud DMS 023	Floor	38.6m²	Delta Tape 1 x Roll	N/A

All information is provided as an estimate. For site-specific assistance, please contact Delta's Technical Team at info@deltamembranes.com or call 01992 523 523.

CORNERSTRIP	ROPE	PROFILE	OTHER PRODUCTS
N/A	Delta Rope 2 x Rolls when used with Delta Plugs	N/A	If required Gas Tape 150 to seal gas membrane joints and for detailing around service penetrations. Koster MS Joint sealant / Delta fix adhesive for sealing fixing through membrane. If required Delta LM 800 for sealing. Expanding Flexi-Dri Plus Plug can be used for soft and/or friable substrates.
N/A	N/A	N/A	If required Gas Tape 150 to seal gas membrane joints and for detailing around service penetrations. If required Delta LM 800 for sealing.
Delta Cornerstrip 1 x Roll per 20 corners	N/A	N/A	

DAMP PROOFING



HIGH PERFORMANCE DPC

Delta High Performance DPC is a high performance polymeric material designed to suit all applications. Available in various widths either for use in buildings up to four storeys or for use in buildings in excess of four storeys.

DMS 300	100mm x 20m
DMS 301	150mm x 20m
DMS 303	300mm x 20m
DMS 304	450mm x 20m
DMS 305	600mm x 20m
DMS 345	1000mm x 20m



WATER BASED EPOXY RESIN

Water Based Epoxy Resin is suitable for all applications where concrete or masonry requires waterproofing and protection. It is applied in the same manner as ordinary emulsion paint with the added benefit of application in damp conditions. Once dried Water Based Epoxy leaves a tough, non-toxic, waterproof, easy to clean surface.

DMS 485	2.5 ltr	White
DMS 486	2.5 ltr	Clear
DMS 487	2.5 ltr	Grey
DMS 488	2.5 ltr	Blue
DMS 144	5 ltr	White
DMS 148	5 ltr	Clear
DMS 149	5 ltr	Grey
DMS 150	5 ltr	Blue



DELTA DPM LM 800

Delta DPM LM 800 is a liquid applied Damp Proof Membrane used in construction to prevent moisture from entering buildings. It's placed between the concrete floor and screed finishes to protect structures and interiors from moisture effects. Ideal for refurbishment projects where the concrete slab remains unchanged.

DMS 035	**10kg**



DELTA DPM

Delta DPM can be installed over hardcore and blinding to protect ground-bearing concrete floors/slabs from moisture. It is designed for solid floors which are not subject to hydrostatic pressure.

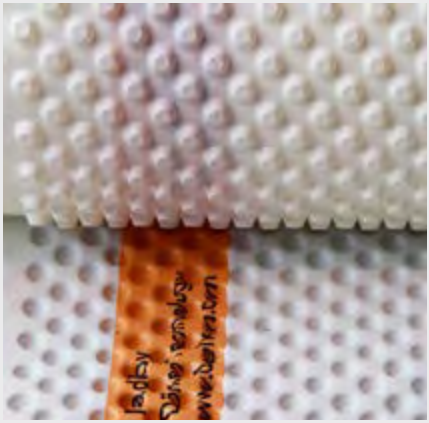
DMS 119	**4m x 25m**

Why settle for less when you can choose the Delta MS 500 Fire Retardant Waterproofing System? This robust Type C, Protection System is engineered to weather the toughest conditions. Invest in durability, invest in peace of mind.

Delta MS 500 Fire Retardant is more than just a product: it's a structured defence against unexpected disasters. Trust in our commitment to your safety and let's make your environment disaster-proof.

Fire retardants play a critical role in enhancing safety measures in homes or buildings. Their primary function is to delay the spread of fire, thereby providing occupants with crucial extra time to evacuate a building and fire-fighters with additional time to intervene. Moreover, they contribute significantly to preventing property damage, not only from the fire itself, but also from potential water damage arising from automated sprinklers or fire control efforts by local authorities.

Features and benefits





- 8mm studded profile
- Suitable for waterproofing and damp proofing
- Euroclass fire rating B-S2, d0 (EN 13501.1:2018)
- Resistant to Radon
- Compressive Strength: >250 kN/m²
- BBA Approved

Delta Membranes

MS 500 Fire Retardant

Our robust Type C, Protection System engineered to weather the toughest conditions, combining the benefits of a comprehensive waterproofing system with Euroclass fire retardant protection.

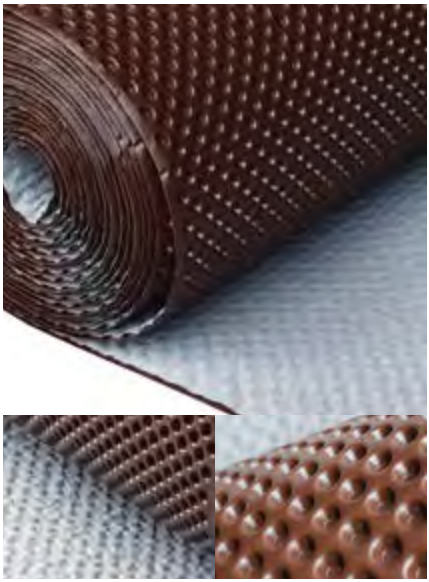


Discover peace of mind today

Call 01992 523 523 or
email info@deltamembranes.com for details

DELTA MEMBRANES

EXTERNAL WATERPROOFING

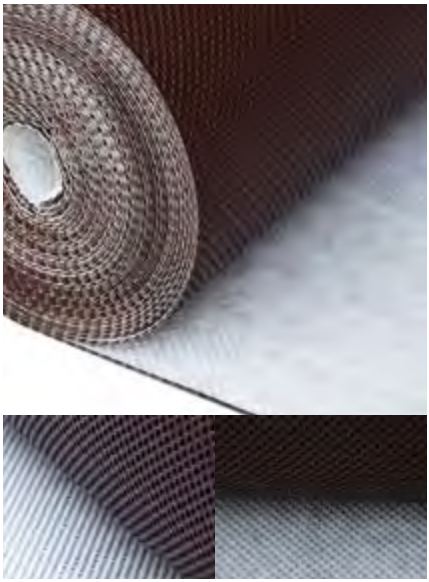


NP DRAIN

NP Drain is an 8mm, two-layer geocomposite external drainage membrane suitable for vertical and horizontal drainage in civil engineering, buildings, tunnels, and retaining walls.

- Acts as a protection layer over Type A Primary Waterproofing Systems
- Drainage rate approx. 2.25 L/S/ m^2
- Compressive Strength: >150 kN/m^2
- Rot-proof, impact resistant and non-deformable

DMS 022	**2m x 20m**

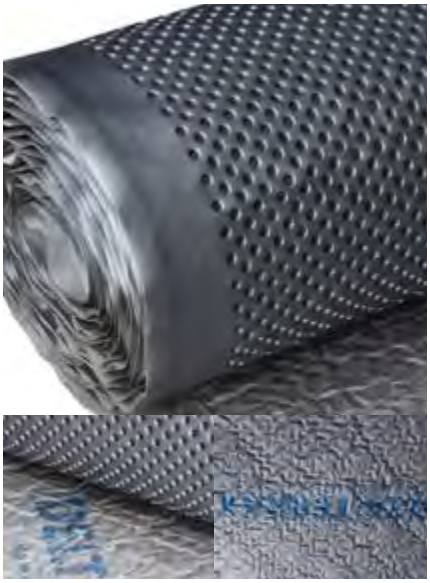


MS DRAIN

Delta MS Drain is a 4mm dimpled sheet and extra drainage layer that ensures smooth drainage while providing protection for primary waterproofing systems and perimeter insulation. Delta MS Drain has excellent drainage capacity, an exceptionally high compressive strength of 500 kN/m^2.

- 4mm studded profile
- Drainage rate approx. 0.6 L/S/ m^2
- Compressive Strength: >500 kN/m^2
- May be installed at depths of up to 10 metres

DMS 233	**2m x 30m**



TERRAXX

9mm dimpled sheet membrane with geotextile layer which acts as a surface layer. Used as a green roof external drainage layer which also offers protection to the primary waterproofing system.

- 9mm studded profile
- Compressive Strength: >400 kN/m²
- Prevents frost damage and encrustations
- Reliably protects and insulates waterproofing layers against mechanical damage

DMS 025	**2.4m x 12.5m**



GEO-DRAIN QUATTRO

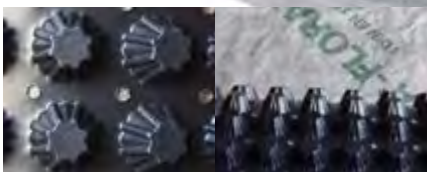
A unique 9mm compact four-layer external drainage membrane suitable for vertical and horizontal drainage, maximum safety for thick viscoelastic coatings and a multitude of alternative Type A systems.

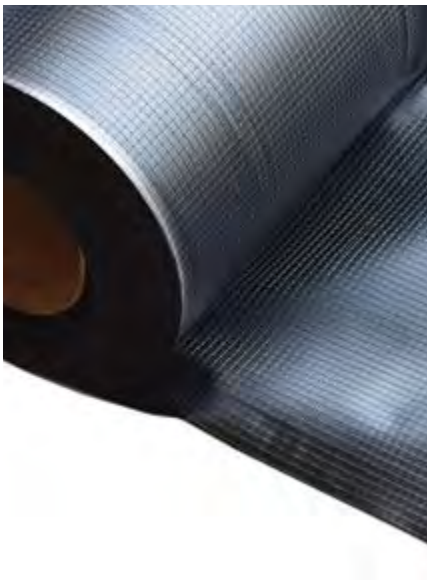
- 9mm studded profile
- Air volume between studs 7.9 L/m²
- Compressive Strength: >400 kN/m²
- Geotextile filter to stop the drain clogging
- Perforated slip layer with wick

DMS 006	**2m x 12.5m**

EXTERNAL WATERPROOFING







FLORAXX TOP

Floraxx Top is a protection and drainage membrane with water storage function, equipped with an integrated filter-stable geotextile which provides a surface drainage and water storage solution in one. Ideal for green roofs (both extensively and intensively) planted.

- Acting as a protection, filtration, and seepage layer, retains 7 L of water per m^2
- Compressive Strength: >200 kN/m^2
- May be used on green inverted roofs (S value: c.0.4M)
- Integrated geotextile layer

DMS 205	**2m x 10m**

ROOT BLOCK

Delta Root Block provides robust root barrier protection to primary waterproofing systems covering green roofs, blue roofs, hybrid roofs or where intrusive root systems are present.

- Cost effective root barrier
- Prevents, contains and mitigates root penetration
- Compatible with bitumen
- Suitable for existing and newly planted trees and plants

DMS 119	**4m x 25m**





DELTA AQUADUCT

Delta Aquaduct is an external land drain coil. Installed externally to direct ground water into a sump or soak away and reduce pressure from bearing on the structure. Delta Aquaduct is perforated for maximum performance and incorporates an outer geotextile filter to prevent particles from entering the conduit system. Available in 2 lengths/widths with complimentary connectors also available ((please see below table for DMS codes) also referred to as couplers or joiners) to connect multiple coils of Delta Aquaduct together. This ideal, cost-effective external drainage option is suitable for most projects. Delta Aquaduct coil is designed for excellent water flow and allows for easy maintenance and inspection.

DMS 078-1	Aquaduct 60 (60mm x 50m)	DMS 145	Aquaduct 60 End Caps (red/Blue bung)
DMS 085	Aquaduct 100 (100mm x 50m)	DMS 095	Aquaduct 100mm T-Piece Connectors
DMS 087	Aquaduct 60mm Straight Connectors	DMS 096	Aquaduct 100mm Straight Connectors
DMS 089	Aquaduct 60mm T-Piece Connector	DMS 098	Aquaduct 100mm Y-Piece Connector
DMS 102	Aquaduct 60mm Y-Piece Connectors		

EXTERNAL MEMBRANES ANCILLARIES



TERRAXX SCHRAUBE

Safe attachment of Delta Terraxx to perimeter insulation panels. Ideal for mounting the Terraxx protection and drainage system on perimeter insulation panels made of XPS with a thickness of 60mm and above. Consumption 1 piece/m²

DMS 038	**Box of 50**



TERRAXX PROFILE

This flashing strip is well suited for use in combination with Delta External Drainage Membranes and insulating materials from 60 to 110mm thick. Delta Terraxx Profile Strip will also prevent dirt and debris from entering the external drainage and protection systems, and is compatible with Terraxx, Geo-Drain and NP Drain membranes.

DMS 137	**2m length**



MS PROFILE STRIP

Delta MS Profile Strip is used in external waterproofing applications as a capping strip where an external drainage and protection membrane is installed.

DMS 017	**2m length**



GEO-DRAIN CLIPS

Geo-Drain Clips are used to securely fix external drainage and protection membranes such as Geo-Drain Quattro, Terraxx or NP Drain.

DMS 093	**Geo Drain Clips**

EXTERNAL MEMBRANES ANCILLARIES



MS CLIPS

Delta MS Clips are used for external waterproofing applications where a external drainage and protection membrane is installed.

DMS 099	MS Clip



DELTA WASHERS

Delta Washers are used for securely fixing external drainage and protection membranes.

DMS 024	Box of 100

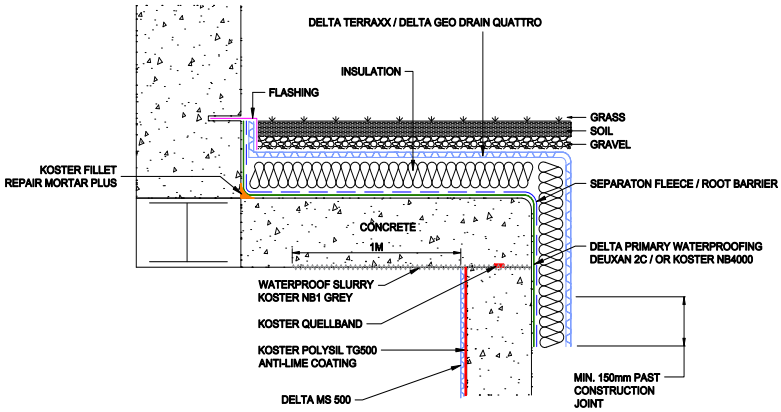


STOP PINS

Delta Stop Pins are self adhesive pins used in external waterproofing applications where external drainage and protection membranes are used.

DMS 029	Box of 100

DELTA TERRAXX HORIZONTAL GARDEN DECK





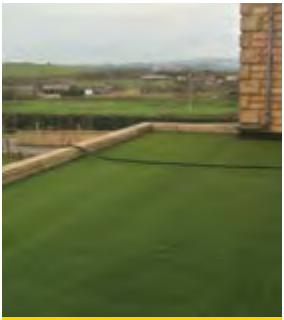
PODIUM DECK



DELTA FLORAXX TOP - GREEN ROOF



PODIUM DECK



GREEN ROOF



DELTA TERRAXX



HYBRID ROOF

EXTERNAL WATERPROOFING SOLUTIONS



DELTA GEO-DRAIN QUATTRO



WELBECK ABBEY



DELTA GEO-DRAIN QUATTRO



COMMERCIAL STRUCTURE



RESIDENTIAL STRUCTURE



TWIN / COMBINATION - 2 FORMS



TWIN / COMBINATION - 2 FORMS



DELTA GEO-DRAIN QUATTRO

MODULAR DRAINAGE TO SUMP

MEMBRANE	APPLICATION	WORKING AREA
Delta NP Drain 2m x 20m DMS 022	Vertical Application Drainage Layer Protection Layer	38.8m^2
Delta MS Drain 2m x 30m DMS 233	Vertical Application Drainage Layer Protection Layer	59m^2
Delta Geo-Drain Quattro 2m x 12.5m DMS 006	Vertical Application Drainage Layer Protection Layer	25m^2
Delta Floraxx Top 2m x 10m DMS 205	Horizontal Application Drainage Layer Reservoir Layer	20m^2
Delta Terraxx 2.4m x 12.5m DMS 022	Horizontal Application Vertical Application Drainage Layer Protection Layer	29m^2
Delta Root Block 4m x 25m DMS 119	Root Barrier	96m^2

EXTERNAL MEMBRANE USAGE GUIDE

ANCILLARIES	OTHER INFORMATION
Geo-Drain Clips – 1 clip per half metre. MS Profile Strips cap off the open end of the membrane, preventing debris from entering the core.	Compatible with Delta Aquaduct.
Geo-Drain Clips – 1 clip per half metre. MS Clips – 1 clip per half metre. MS Profile Strips cap off the open end of the membrane, preventing debris from entering the core.	Compatible with Delta Aquaduct.
Geo-Drain Clips – 1 clip per half metre. MS Profile Strips cap off the open end of the membrane, preventing debris from entering the core.	Slip and wick layer incorporated to provide protection during the backfilling process. Compatible with Delta Aquaduct.
Terraxx Profile suitable for insulating materials from 60 to 110mm thick. Terraxx Schraube is designed to securely attach membranes to insulation materials, ensuring membrane stability prior to backfilling.	Compatible with Delta Aquaduct.

GLASS INSULATION



DELTA GLASS FLOOR BOARD T4+

Delta Glass Floorboard T4+ is a superior insulation which offers a high compressive strength. Manufactured from specially graded recycled glass and natural raw materials. When joint sealed is impermeable to water vapour.



DELTA GLASS WALL BOARD T3+

Delta Glass Wall Board T3+ insulation is extremely popular. Delta Glass T3+ consists of T3+ slabs bonded together, the upper surface of the insulation is lined with a PE/Glass fleece composite.



DELTA GLASS ROOF BOARD G2 T3+

Delta Glass Roof Board G2 T3+ is a robust, Radon protective insulation with a high compressive strength. G2 T3+ can be used as a single layer or as a first layer in a two-layer insulation system.



DELTA GLASS PERINSUL HL

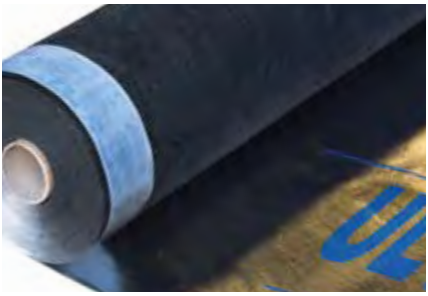
Delta Glass Perinsul HL is an extremely high-density speciality product used to eliminate structural thermal bridging. Delta Glass Perinsul HL's upper side (Green Side) and lower surface of insulation are bitumen coated and laminated with glass reinforced fleece, compatible with mortar.

For all Special Orders please contact 01992 523523



DELTA GLASS PC F ANCHOR (INSULATION FASTENING)

Delta Glass PC F Anchor is a unique stainless-steel anchor fixing which enables complete continuation of Delta Glass to the wall and soffit on installation. Suitable for supported and accepting of screw nail anchor substrates.

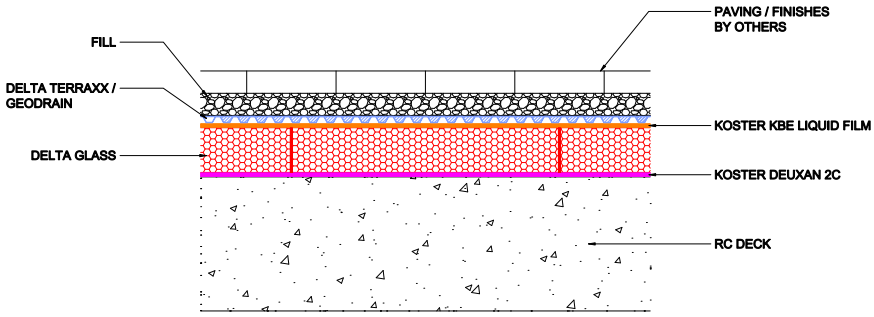


DELTA ULTRA CONTROL VCL

Delta Ultra Control VCL is a robust, highly reflective air and vapour control layer (AVCL), suitable for timber, masonry or steel. Offering excellent thermal resistance, Delta Ultra Control VCL is available with integrated tape to seal overlaps to ensure radiant heat is reflected back into the structure, minimising absorption and energy transfer.

DMS 046	**1.5m x 50m**

RC DECK & DELTA GLASS - PAVED DECK





2

PUMPING STATIONS & BASEMENT DRAINAGE

A key aspect in designing an effective waterproofing solution is the efficient collection and discharge of ground, foul, and surface water.

Whether you want a bespoke specialist design or an all-rounder for your basement, explore our innovative and highly effective, Basement Drainage range to find the perfect solution.

SUMP PUMPS

Delta V3 Submersible Pump

Description

The Delta V3 Submersible Pump has been specifically designed for below ground application.

Offering elite performance, the Delta V3 achieves high levels of efficiency thanks to its optimised hydraulic systems and reliable motors.

Fitted with a magnetic float switch the Delta V3 provides variable level control and maximum travel stop.

The powerful vortex pump offers innovative design and advanced technology making it extremely reliable even when subjected to continuous use (subject to correct installation).

A straightforward locking disk enables adaption of the pump to external control systems.

The Delta V3 Submersible Pump is suitable for collecting ground water from a Cavity Drained System.



V3



V4/V6

Features

- Suitable for ground, surface, storm, and grey water applications
- Maximum flow rate up to 2.9 l/s
- 1.25" BSP threaded pump outlet
- Superior vortex hydraulics for blockage free pumping
- Internal thermal protection
- Designed for easy installation
- Available with float locking disc for manual level control

Product details

DMS 116-1

UK CA CE

Delta V4 Submersible Pump

Description

The Delta V4 Submersible Pump is light-weight and corrosion-proof due to its high-quality plastic casing. Thanks to its noise-absorbing, abrasion proof and impact-resistant features, the Delta V4 is a popular choice with waterproofing professionals.

The Delta V4 is suitable for double depth basements with a head height of 8m.

The powerful Vortex pump offers innovative design and advanced technology making it extremely reliable even when subjected to continuous use (subject to correct installation).

The Delta V4 is supplied free standing for quick installation.

Features

- Suitable for ground, surface, storm, and grey water applications
- Maximum flow rate up to 3.3 l/s
- 1.25" BSP threaded pump outlet
- Superior vortex hydraulics for blockage free pumping in critical conditions
- Internal thermal protection
- Designed for easy installation
- Available with float locking disc for manual level control

Product details

DMS 216-1

UK CA CE

SUMP PUMPS

Delta V6 Submersible Pump

Description

The Delta V6 Submersible Pump is a reliable heavy-duty pump. The Delta V6 is suitable for double and triple depth basements with a head height up to 12m.

The powerful vortex pump offers innovative design and advanced technology making it extremely reliable even when subjected to continuous use (subject to correct installation).

The Delta V6 is supplied free standing for quick installation.

Features

- Suitable for ground, surface, storm, and grey water applications
- Maximum flow rate up to 3.9 l/s
- 1.25" BSP threaded pump outlet
- Superior vortex hydraulics for blockage free pumping in critical conditions
- Internal thermal protection
- Designed for easy installation
- Available with float locking disc for manual level control

Product details

DMS 084-1

UK CA CE

Delta Foul V3 Submersible Pump

Description

The Delta Foul V3 Submersible Pump is designed as a compact and cost-effective solution for collection of foul and/or grey water from basements, below ground structures and ground floor extensions.

The robust and reliable Delta Foul V3 is an exceptionally popular choice with waterproofing professionals due to its generous sized motor, thermal overload protection and ease of installation.

The powerful Vortex pump offers innovative design and advanced technology making it extremely reliable even when subjected to continuous use (subject to correct installation). With a 45mm solids clearance the Delta Foul V3 offers reliable and effective discharging..

The Delta Foul V3 can be supplied free standing or on pedestal mounting for permanent installation.

The Delta Foul V3 Submersible pump is not suitable for collecting ground water from a Cavity Drained System.



Features

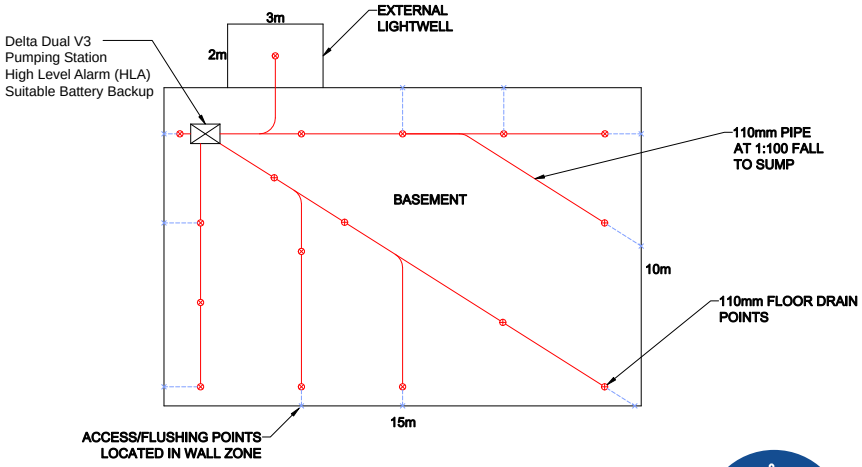
- Maximum flow rate up to 6.3 l/s
- Maximum head (lift height) 12m
- 2" BSP threaded pump outlet
- Includes float, elbow and outlet reducer adaptors
- Trouble free operation
- Free flowing impeller (preventing clogging)
- Corrosion resistant stainless-steel shaft and bi-rotational mechanical seal
- Designed for easy installation
- Available with pedestal mounting

Product details

DMS-E029 (Manual)
DMS 120-1 (Automatic)

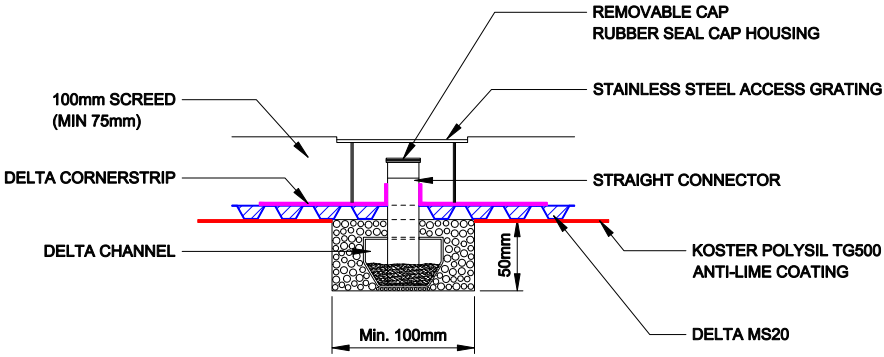
UK CA CE

INDICATIVE MODULAR DRAINAGE LAYOUT



Technical Drawings

MID FLOOR DELTA CHANNEL ACCESS POINT



PACKAGED PUMPING STATIONS

Delta Dual V3 Packaged Pumping Station

Description

Manufactured from superior high-density polyethylene (HDPE), this package pump station can withstand hydrostatic forces encountered in applications with high water tables. Pumping applications are invariably demanding – typically operating in unsympathetic, arduous, or extreme environments, where quality matters.

The powerful vortex pump offers innovative design and advanced technology making it extremely dependable even when subjected to continuous use (subject to correct installation).

The Delta Dual V3 offers unrivalled capabilities. It includes chamber, all internal pipework and two powerful Delta V3 submersible pumps.



Product details

DMS 164-1

Delta Dual V4 Packaged Pumping Station

Description

The Delta Dual V4 package pump station has been designed specifically to work in unity with the Delta Cavity Drained System (Type C waterproofing) to collect groundwater via a perimeter channel or modular drainage.

Delta's robust and distinguished package pumps are capable of diverse applications where quality matters. Using advanced pump design techniques our packaged pump systems are unrivalled.

The Delta Dual V4 offers a higher discharge head to the Delta Dual V3 Packaged Pump Station.

The Delta Dual V4 includes chamber, all internal pipework and two powerful Delta V4 Submersible Pumps. The Delta Dual V4 should not be used to collect grey water from showers and hand basins, or foul water from a water closet.



Product details

DMS 217-1

PACKAGED PUMPING STATIONS

Delta Dual V6 Packaged Pumping Station

Description

Manufactured to the highest of quality, the Delta Dual V6 package pump station can meet the requirements of the toughest environment. The Delta Dual V6 has the capabilities to discharge water ingress from surface areas over 150m² or basements that require a head height up to 10m.

The Delta Dual V6 packaged pump station has been distinctively designed to work in harmony with the Delta Type C System, to collect groundwater via a perimeter drainage channel or modular drainage. Manufactured from high-density polyethylene (HDPE), this package pump station can effortlessly withstand the strongest hydrostatic stress.

The Delta Dual V6 pump station package includes chamber, all internal pipe work and two powerful Delta V6 Submersible Pumps. The system's pumps are factory-set to activate at different levels, providing both primary and secondary protection. The powerful Delta V6 Submersible Pump offers innovative design and advanced technology making it extremely reliable even when subjected to continuous use (subject to correct installation).



Product details

DMS 079-1

Delta V3 Foul Packaged Pumping Station

Description

The Delta Foul V3 Packaged Pumping Station has been specifically designed to collect foul and/or grey water from basements, below ground structures and ground floor extensions.

Superior design, precision manufacturing and high-quality assurance has made Delta a trusted name for package pump stations. The robust and reliable Delta Foul V3 is an exceptionally popular choice with waterproofing professionals due to its generous sized motor, thermal overload protection and ease of installation. The powerful vortex pump offers innovative design and advanced technology making it extremely dependable even when subjected to continuous use (subject to correct installation).

The Delta Foul V3 chamber is manufactured from virgin tank grade HDPE and is capable of withstanding hydrostatic forces encountered in applications with high water tables.

The Delta Foul V3 includes a chamber, all internal pipework, and a powerful Delta Foul V3 Submersible Pump.



Product details

DMS 165-2

Experience the edge of innovation with the Delta HLA Plus, a sleek and dependable high-water level alarm, perfectly engineered for real-time monitoring of pumping stations.

The Delta Pumps App promises to provide seamless navigation, user-friendly interfaces, and a wealth of features designed to safeguard your pumping stations, peace of mind is just a tap away. Activate your keyholder notifications on the app and receive instant alertifications to any registered device.

The Delta HLA Plus is dedicated to safeguarding your property, offering live, in-depth data on all pumping station activities. It's not just about monitoring; it's about pro-actively reducing risks. Adaptable and intelligent, the Delta HLA Plus is ideal for managing ground and surface water pumping stations. Don't just monitor, take control with Delta HLA Plus. Stay informed about your pumping system's status 24/7.

Don't wait! Harness the power of Delta HLA Plus today.

Features and benefits

- Smart protection for pumping stations
- Real time notifications – any device, anywhere, any time
- Monitors pump station activities
- Tracks and records
- Instant access to pump station activity via the Delta Pumps app
- Indicates changes in pump activity (frequency and duration)
- Linked pumping stations
- WiFi or LAN/Ethernet connection
- Service due reminders
- All keyholders receive alerts via email and push notifications
- Subscription-free Delta Pumps App



Delta Membranes

Delta HLA plus

An advanced high-water level alarm system, specifically designed for real-time tracking and monitoring of pumping stations, providing a reliable tool in your hands.



Discover peace of mind today

Call 01992 523 523 or
email info@deltamembranes.com for details

DELTA MEMBRANES

HIGH LEVEL ALARMS

Delta HLA Plus - Groundwater





Description

Designed to put property owners in control.

The Delta HLA Plus can be retrofitted in any existing ground water or surface water pumping system. Please refer to Delta's Technical Guidance Notes on how to register a new Delta HLA Plus device(s).

Where pump stations are installed in high-risk areas, we recommend adding a Delta Level Float to enhance features on the Delta HLA Plus into an 'Intelligent' High-Water Level Alarm and Monitoring System, not only detecting when a high-water level occurs in a sump pump chamber, but also to monitor sump pump activation(s), and changes in sump pump activation(s) (both frequency and duration).

Product details

DMS 531

Delta HLA Plus Intelligent - Groundwater





Description

The Delta HLA Plus Intelligent is supplied with a Delta Level Float and is compatible with all Delta V3, V4 and V6 ground water/surface water pumping stations. Delta HLA Plus can also be retrofitted to any existing ground water/ surface water pumping station.

The Delta HLA Plus 'Intelligent' is a highly advanced High-Water Level Alarm Monitoring System. The Delta Level Float transforms the Delta HLA Plus ('Smart' High-Water Level Alarm) into an 'Intelligent' High-Water Level Alarm, not only detecting when a high-water level occurs in a sump pump chamber, it also monitors sump pump activity – number of activation(s), and changes in sump pump activation(s) (both frequency and duration). This additional information allows for real time calculation of flow, volumes of discharge over given periods, changes in level of activity within the pumping station including decline in pump performances. For full features of the Delta HLA Plus 'Intelligent' Pump Station Monitoring Device, all devices are required to be registered for free on the Delta Pumps App.

The Delta HLA Plus Intelligent has both proactive and preventive functions. Real-time analysis of your pumping station enabling service, maintenance, or repair requirements to be detected and implemented at the earliest stage.

Product details

DMS 538

HIGH LEVEL ALARMS

Delta HLA Plus Intelligent - 800 Series Ground / Surface Water



Description

The Delta HLA Plus Intelligent is a highly advanced High-Water Level Alarm Monitoring System.

The Delta HLA Plus Intelligent has both proactive and preventive functions. Real-time analysis of your pumping station enabling service, maintenance, or repair requirements to be detected and implemented at the earliest stage. The Delta HLA Plus Intelligent is compatible with all ground and surface water Delta 800 Series packaged pump stations.

The Delta HLA Plus Intelligent can be retrofitted in any existing sump pump chamber/sump pump system that manages ground and/or surface water.

Product details

DMS 539

Delta HLA Plus - Foul Water/800 Series Ground



Description

The Delta HLA Plus is a smart High-Water Level Alarm and Monitoring System, capable of delivering real-time monitoring and notification services, for Foul and Delta 800 Series packaged pumping stations.

Designed to put property owners in control - On any device, anywhere at any time. For any important or time-sensitive notifications, the Delta HLA Plus allows property owners to engage in real-time with their basement drainage system, using the Delta Pumps App. The Delta Pumps App offers Delta HLA Plus owners an uncomplicated way to register devices. All monitoring and notification services are offered for free once devices are registered.

The Delta HLA Plus can be retrofitted in any existing sump pump chamber/sump pump system that manages foul or larger packaged pumping station, such as the Delta 800 Series.

Product details

DMS 532

HIGH LEVEL ALARMS

Delta HLA Plus Level Float

Description

The Delta HLA Plus Level Float enables additional monitoring features of the Delta HLA Plus Device, enabling for in-depth information on sump pump activities (including - Frequency of Pump Activation(s), Duration of Activation(s), Fixed Depth(s), Fixed Volume(s) based on pump chamber diameter) within pumping stations.

The Delta HLA Plus Level Float transforms the Delta HLA Plus 'Smart' High-Water Level Alarm into an 'Intelligent' High-Water Level Alarm. The Delta HLA Plus has both proactive and preventive functions. Real-time analysis of your pumping station enables service, maintenance, or repair requirements to be detected and implemented at the earliest stage.

The Delta HLA Plus is a High-Water Level Alarm and Monitoring System, capable of delivering real-time monitoring and notification services, for groundwater, surface, and foul water pumping stations. On any device, anywhere, any time.

The Delta HLA Plus Level Float is compatible with all Delta HLA Plus devices.

The Delta HLA Plus level Float is robust and reliable. It is insensitive to turbulence within the chamber and features gold contacts for high conductivity, durability and resistance to corrosion and oxidation.

Standard features such as instant notifications, real time monitoring and live performance data of sump pump systems are available out of the box on all Delta HLA Plus devices. For full features of the Delta HLA Plus Intelligent Pump Station Monitoring Device, all devices are required to be registered for free on the Delta Pumps App.

Please refer to Delta Technical Guidance Notes and Delta HLA Plus Product Data Sheets for further information.



For use with Delta HLA Plus high level alarm.

Product details

DMS 536

DELTA PUMPS APP

Creating your free account

Create a free account on the Delta Pumps App to manage your Delta HLA Plus/Delta HLA Plus Intelligent Device(s).

Visit **https://pumps.deltapumpsapp.com**

1. Create your Account

2. Choose "New Customer" and "Create account" at the bottom of the log in page.

3. Enter your email address.

4. Create and confirm your Password.

5. Enter title and contact details

6. Choose from being a Delta Customer, Delta Registered Pump Installing Contractor or a Property Owner

7. Once you have created your user account you will be able to **Add Delta HLA Plus/Delta HLA Plus Intelligent Device(s)** to your account.



Setting up your Delta HLA Plus/ HLA Plus Intelligent Device



To set up your Delta HLA Plus/Delta HLA Plus Intelligent Device:

1. Open the Delta Pumps App: **https://pumps.deltapumpsapump.com**
On any mobile or android device via a browser window or using your mobile device's camera scan the QR code found on your Delta HLA Plus/ Delta HLA Plus Intelligent Device (or its packaging). Alternatively, use a PC to register your Delta HLA Plus/Delta HLA Plus Intelligent Device.

2. Choose "Returning Customer". Enter in email address and password used to create an account.

3. Tap "Register Device" on the top menu.

4. Enter Serial Number of the Device and press "continue".

5. Complete required fields.

Thank you for choosing Delta HLA Plus/Delta HLA Plus Intelligent!

Your device will now be shown on your account.

ALARMS & BATTERY BACKUPS

Delta HLA - Foul

Description

The Delta HLA Foul is designed to detect high water levels within a foul sump pump (submersible pump) chamber. The Delta HLA Foul is an independent high water level alarm with a clear display on the front fascia via LED, which acts as a warning system in the event of:

- Power failure to the Delta HLA Foul
- A high water level situation in the chamber/sump
- A high water level situation is recorded
- A service due



Product details
DMS 191-1

Delta HLA - Groundwater

Description

The Delta HLA Groundwater is designed to detect high water levels within a groundwater/surface water sump pump (submersible pump) chamber. The Delta HLA Groundwater is an independent high water level alarm with a clear display on the front fascia via LED, which acts as a warning system in the event of:

- Power failure to the Delta HLA groundwater
- A high water level situation in the chamber/sump
- A high water level situation is recorded
- A service due



Product details
DMS 190-1

Delta HLA - 800 Series/Surface Water

Description

The Delta HLA 800 Series is designed to detect high water levels within a Delta 800 Series sump pump (submersible pump) chamber and in certain surface water applications. The Delta HLA 800 Series is an independent high water level alarm with a clear display on the front fascia via LED, which acts as a warning system in the event of:

- Power failure to the Delta HLA groundwater
- A high water level situation in the chamber/sump
- A high water level situation is recorded
- A service due



Product details
DMS 191-1

ALARMS & BATTERY BACKUPS

Delta UPS V3 and UPS V4/6



Description

The Delta UPS V3 is specifically designed for basement drainage systems (submersible pumps/sump pumps) when there is a loss of mains power. UPS V3 will keep one Delta V3 Submersible Pump running during a power outage, with the UPS V4/V6 powering one Delta V3, Delta V4, or Delta V6 Submersible Pump during a power outage, keeping basements dry.

If power failure occurs, the Delta UPS V3 automatically powers the Delta V3 pump. Usage: The Delta UPS V3, based on a 3.5 m head will pump, 30 minutes continuous.

The Delta UPS V4/6, based on a 3.5 m head will pump a Delta V4 Pump 30 minutes continuous or a Delta V6 pump 30 minutes continuous.

Simple to use and easy to install – the Delta UPS V3 and UPS V4/6 clearly displays its status and comprehensive fault codes.

The UPS V3 is not suitable for powering a Delta V4 or Delta V6 pump. For such installations, please refer to the Delta UPS V4/6 or the Delta Battery Backup V4/6 range.

Product details

DMS-E021 (UPS V3)

DMS-E022 (UPS V4/V6)

Delta Battery Backup Foul V3



Description

The Delta Battery Backup Foul V3 ensures an uninterruptible power supply for Delta V3 Foul sump pumps (submersible pumps) during mains power failure, offering reliable performance and peace of mind. The Delta Battery Backup Foul V3 automatically activates in the event of mains power failure, ensuring continuous operation without interruption.

The Delta Battery Backup Foul V3 is specifically designed to provide power/run one Foul V3 pump (Delta V3 Foul or Bespoke 800 Series) during power outages. The Delta Battery Backup Foul V3 provides over 3 days* of power (30 minutes continuously) to one Delta Foul V3 pump.

The Delta Battery Backup Foul V3 will automatically recharge when mains power is restored.

* Based on one activation per hour.

Product details

DMS-E030

ALARMS & BATTERY BACKUPS

Delta Battery Backup V3

Description

The Delta Battery Backup V3 guarantees an uninterrupted power supply for Delta V3 sump pumps during mains power failures, ensuring dependable performance and peace of mind. The Delta Battery Backup V3 automatically activates during power outages, providing seamless operation of package pumping stations.

The Delta Battery Backup V3 provides abundant battery backup power, so your sump pump system can continue working through short and medium length power outages. Safeguarding your sump pump equipment and keeping structures remaining dry.

The Delta Battery Backup V3 will provide power for 60 hours* to one or two Delta V3 pumps (not simultaneously) in case of a loss of network power.

Simple to use and easy to install – the Delta Battery Backup V3 will clearly display status and comprehensive fault codes.



* Based on PCA guidance of 3 activations of 20 seconds each per hour and a 3.5 metre head.

Product details
DMS-E023

Delta Battery Backup V3 Plus

Description

The Delta Battery Backup V3 Plus is designed for sump pump applications, providing unequalled protection to the Delta V3 pump during power outages. The Delta Battery Backup V3 Plus provides abundant battery backup power, so your sump pump system can continue working through short and medium length power outages. Safeguarding your sump pump equipment and keeping below ground structures remaining dry.

The Delta Battery Backup V3 Plus will provide power for 120 hours* to one or two Delta V3 pumps (not simultaneously) in case of a loss of mains/network power. Delta Battery Backup V3 Plus automatically activates during power outages, providing seamless operation of package pumping stations.

Simple to use and easy to install – the Delta Battery Backup V3 Plus will clearly display status and comprehensive fault codes.



* Based on PCA guidance of 3 activations of 20 seconds each per hour and a 3.5 metre head

Product details
DMS-E024

ALARMS & BATTERY BACKUPS

Delta Battery Backup V4/6

Description

The Delta Battery Backup V4/6 is engineered for basement drainage systems, ensuring submersible pumps remain operational during power outages. The Delta Battery Backup V4/6 provides ample battery backup power, allowing sump pumps to work through short to medium power outages, protecting your basement.

The Delta Battery Backup V4/6 model can supply power for up to 45 hours to one or two Delta V6 pumps (not simultaneously) during a network power failure.

Delta Battery Backup V4/6 Plus automatically activates during power outages, providing seamless operation of package pumping stations.

The Delta Battery Backup V4/6 will provide power for 45 hours* to one or two Delta V6 pumps (not simultaneously) in case of a loss of power.



* Based on PCA guidance of 3 activations of 20 seconds each per hour and a 3.5 metre head.

Product details
DMS-E026

Delta Battery Backup V4/6 Plus

Description

In the event of mains power failure, the Delta V4 or V6 pump(s) will seamlessly switch to the Delta Battery Backup V4/6 Plus, which remains fully charged during mains operation. The Delta Battery Backup V4/6 will automatically recharge once mains power is restored.

The Delta Battery Backup 4/6 Plus will keep submersible pumps running during a power outage, ensuring pumps are continuously running, through short and medium length power outages.

The Delta Battery Backup V4/6 Plus will provide power for 90 hours* to one or two Delta V6 pumps (not simultaneously) in case of a loss of mains power.
Delta Battery Backup V4/6 Plus automatically activates during power outages, providing seamless operation of package pumping stations.

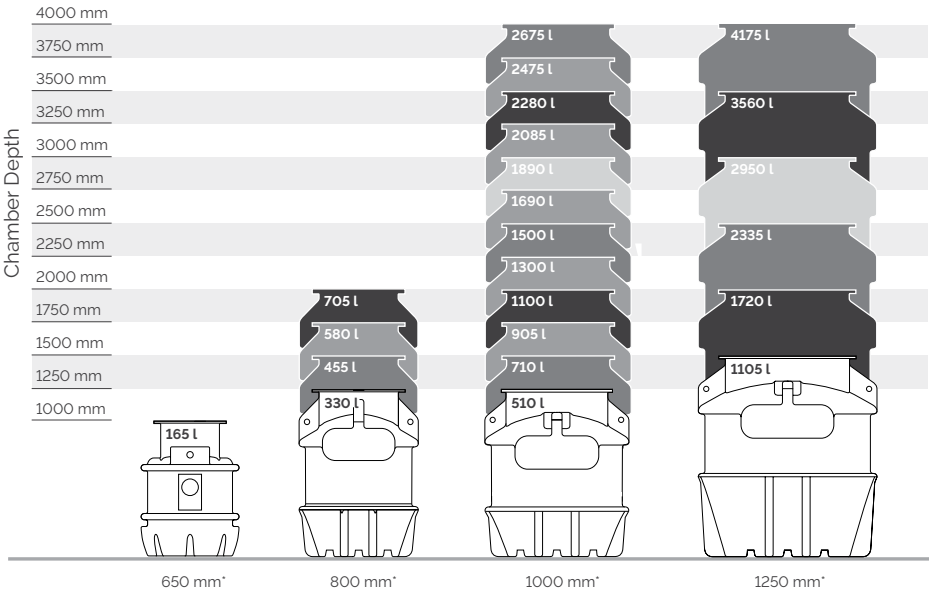
Simple to use and easy to install – the Delta Battery Backup V4/6 Plus will clearly display status and comprehensive fault codes.



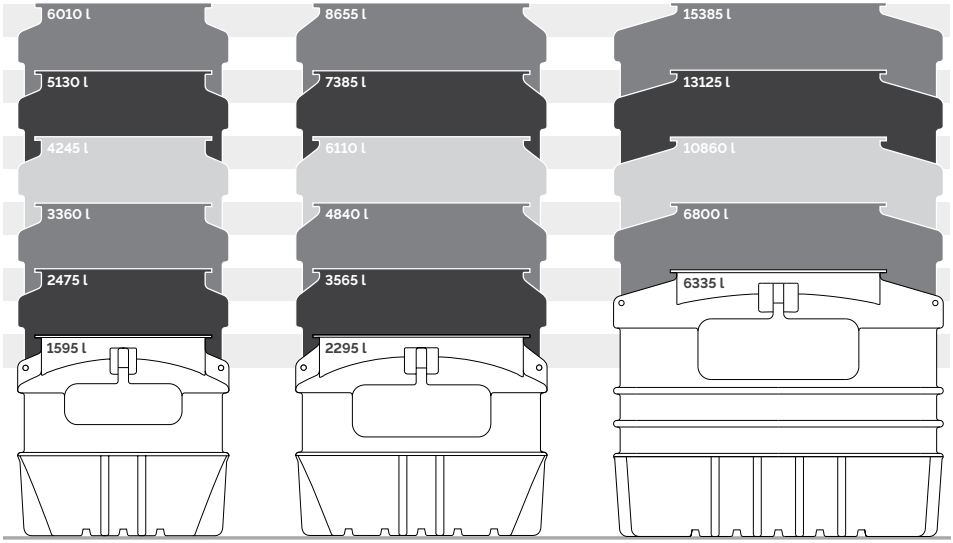
* Based on PCA guidance of 3 activations of 20 seconds each per hour and a 3.5 metre head.

Product details
DMS-E027

CHAMBER SIZE AND STORAGE CAPACITY



*Chamber diameter (add 100mm for total external diameter).
Capacities shown are for highest possible inlet invert. Please contact us for fabrication sheets detailing chamber dimensions and capacities for varying inlet depths.


6010 l
5130 l
4245 l
3360 l
2475 l
1595 l
8655 l
7385 l
6110 l
4840 l
3565 l
2295 l
15385 l
13125 l
10860 l
6800 l
6335 l
1500 mm*
1800 mm*
2400mm*

DELTA BESPOKE 800 SERIES LIFTING INSTRUCTIONS

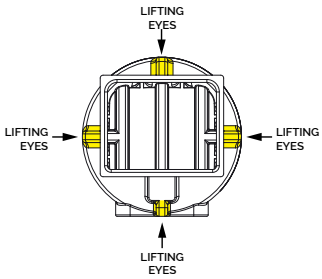


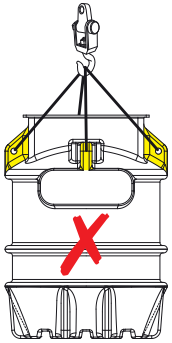
If you require further advice call 01992 523 523 before attempting to lift the product

HEALTH AND SAFETY

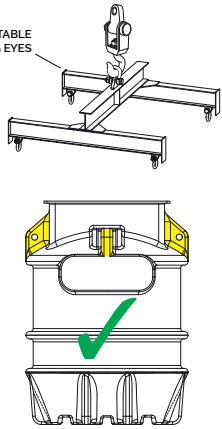
These instructions must be followed to prevent injury to operatives or damage to the product.

- Create a lifting plan, noting the following specifics, to prevent injury to operatives or damage to the product during the lifting process.
- Refer to the individual pallet / product's weight sticker and make sure the lifting equipment is suitable for this weight.
- Inspect all the chamber's lifting eyes.
- Do not use chains. The product must be lifted using a 4-hook lifting spreader beam with the correct length and breadth for the widths of the chamber's lifting eyes.
- Under no circumstances should the lifting equipment impinge on the clear opening flange. This will apply pressure to the flange and will damage the chamber.
- Adhere to all current legislative and training requirements.





DO NOT USE CHAINS



USE A SPREADER BAR

DELTA BESPOKE 800 SERIES GROUNDwATER



Description

The Delta Bespoke 800 Series of Packaged Pumping Stations are available in depths from 1250mm to 2000mm and with varying pumping capabilities from the Delta Dual V3 to powerful Delta Dual V6 pump.

The robust and reliable Delta Bespoke 800 Series Packaged Pumping Station has been specifically designed to collect ground and surface water from basements, below ground structures.

Typical applications include (but are not limited to) Type C, Cavity Drained Waterproofing solutions and/or surface water from roofs, buried roofs, terraces and patios (subject to selection criteria).

Delta Bespoke 800 Series – system includes: a polyethylene chamber, 1¼" PVC internal pipework, two Delta V3, V4 or V6* sump pumps, 110mm inlet, 50mm cable duct, 110mm vent and 2" discharge.

This product is specifically designed for below ground applications where hydrostatic water pressure may be present. We recommend surrounding the Delta Bespoke 800 Series with concrete to prevent movement. An access cover is not supplied, as these are generally site specific and installed in the final finish. If required, the chamber will accept a standard 450mm x 600mm cover and frame. Inlets can easily be drilled and sealed on site, making this product straightforward to install.

The Delta Bespoke 800 Series - Groundwater is not suitable for collecting foul or grey water.

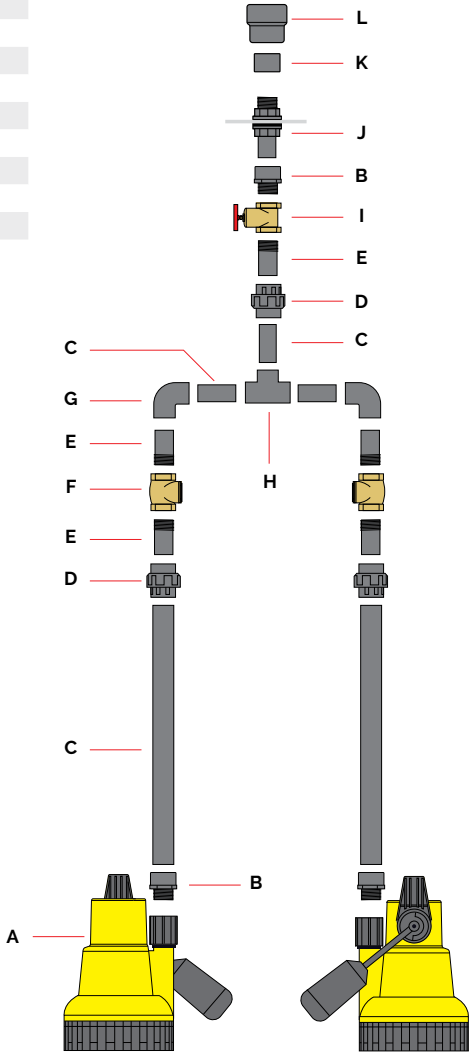
Features

- Suitable for ground, surface, storm, and grey water applications
- Available from stock
- Wide selection of pumps, options and accessories
- Unrivalled quality
- Large chamber, manufactured from superior polyethylene to withstand hydrostatic forces encountered in applications with high water tables
- Quick and simple installation
- Suitable for residential, commercial, health care/ learning institution and heritage projects

Specification

- NBS Specification R18 (Clause 310) Pumping Stations and Pressure Pipelines
- BS 8102:2022 Type C Drained Protection

Part	Description	DMS Code
A	Delta V3/V4/V6 Submersible Pump, inc.: – float switch assembly (DMS E-192) – non-return valve (DMS E-195)	DMS 116-1 (V3) DMS 216-1 (V4) DMS 084-1 (V6)
B	Male threaded adaptor, 1.25"	DMS E104
C	High pressure PVC pipe (Class E), 1.25"	DMS E100
D	Socket union, 1.25" c/w 'O' ring	DMS E106
E	Barrel nipple PL/TH, 1.25"	DMS E108
F	Brass swing check valve, 1.25"	DMS E191
G	90° elbow, 1.25"	DMS E101
H	Tee-piece, 1.25"	DMS E105
I	Brass gate valve, 1.25"	DMS E187
J	Tank connector, 1.25"	DMS E110
K	Reducing bush, PL/TH, 1½" to 1¼"	DMS E161
L	Reducer, PL/PL, 2" to 1½"	DMS E160



Associated products

Battery backup systems
High-level alarms
Remote monitoring
External pipework
Pumps
Access covers
Additional inlets

Product Details

Delta Dual V3

800-1250 Pump Station	DMS-E001
800-1500 Pump Station	DMS-E002
800-1750 Pump Station	DMS-E003
800-2000 Pump Station	DMS-E004

Delta Dual V4

800-1250 Pump Station	DMS-E005
800-1500 Pump Station	DMS-E006
800-1750 Pump Station	DMS-E007
800-2000 Pump Station	DMS-E008

Delta Dual V6

800-1250 Pump Station	DMS-E009
800-1500 Pump Station	DMS-E010
800-1750 Pump Station	DMS-E011
800-2000 Pump Station	DMS-E012

UK CA CE

DELTA BESPOKE 800 SERIES FOUL



Description

The Delta Bespoke 800 Series of Package Pumping Stations are available in depths from 1250mm to 2000mm. The robust and reliable Delta Bespoke 800 Series - Foul Packaged Pump Station has been specifically designed to collect foul and/or grey water from basements, below ground structures and ground floor extensions or where foul water cannot be drained by gravity.

For kitchen applications we recommend fitting a grease trap prior to the pump station installation.

This product is specifically designed for below ground applications where hydrostatic water pressure may be present. However, we recommend surrounding the Delta Bespoke 800 Series – Foul with concrete to prevent movement. A manhole cover is not supplied as these are generally site specific and installed in the final finish.

The Delta 800 Series Foul Packaged Pumping Station can be installed at the initial building stage or retro fitting to existing buildings.

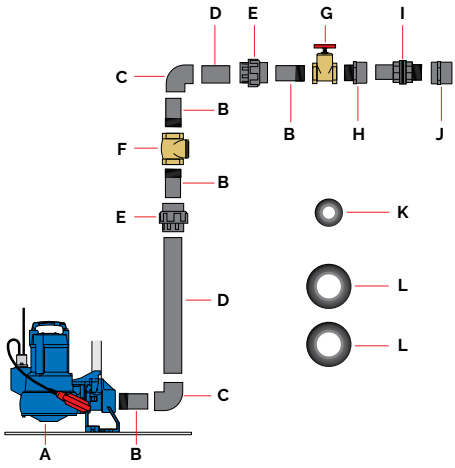
The Delta Bespoke 800 Series - V3 Foul is not suitable for collecting ground water from a cavity drained membrane system.

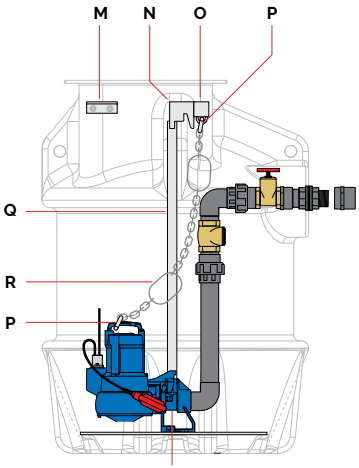
Features

- Suitable for foul/grey water applications
- Available from stock
- Large chamber, manufactured from superior polyethylene enabling the Delta 800 Series to withstand hydrostatic forces encountered in applications with high water tables
- Quick and simple installation
- For kitchen applications, we recommend fitting a grease trap prior to the pump station
- Wide selection of pumps, options and accessories
- Unrivalled quality
- Suitable for residential, commercial, health care/ learning institution and heritage projects

Specification

- NBS Specification R18 (Clause 310) Pumping Stations and Pressure Pipelines
- BS EN 12050-3:2015 Wastewater lifting plants for buildings and sites. Lifting plants for limited applications
- BS 8102:2022 Type C Drained Protection





Part	Description	DMS Code
A	Delta Foul V3 (Automatic)	DMS 120-1
B	Barrel nipple PL/TH, 2"	DMS-E128
C	90° elbow, 2"	DMS-E121
D	High pressure PVC pipe (Class E), 2"	DMS -E120
E	Socket union, 2" c/w 'O' ring	DMS-E126
F	Brass swing check valve, 2"	DMS-E193
G	Brass gate valve, 2"	DMS-E188
H	Male threaded adaptor, 2"	DMS-E124
I	Tank connector, 2"	DMS-E130
J	Coupling PL/TH, 2"	DMS-E127

Part	Description	DMS Code
K	Rubber wall seal, 50 mm (cable duct, 50 mm inlets)	DMS-E168
L	Rubber wall seal, 110 mm (vent duct, 110 inlets	DMS-E169
M	2-hole sump float bracket, steel	DMS-E234
N	Guide rail top bracket	-
O	Uni-strut kit c/w bracket	-
P	Galvanised steel shackle, 8 mm	-
Q	Guide rail tube, galvanised steel, 25 mm	-
R	Galvanised steel lifting chain	-
S	Pedestal for foul V3 Submersible Pump	DMS-E163

Product Details

Delta Single V3 Foul
800-1250 Pump Station DMS-E013
800-1500 Pump Station DMS-E014
800-1750 Pump Station DMS-E015
800-2000 Pump Station DMS-E016

Delta Dual V3 Foul (inc control panel)
800-1250 Pump Station DMS-E017
800-1500 Pump Station DMS-E018
800-1750 Pump Station DMS-E019
800-2000 Pump Station DMS-E020

Associated products

- Battery backup systems
- High-level alarms
- Remote monitoring
- External pipework
- Pumps
- Access covers
- Additional inlets

DELTA PLUTO PACKAGED PUMPING STATION

Description

The Delta Pluto Packaged Pumping Station is available in association with TT Pumps and has been specifically designed to work in harmony with Cavity Drained Systems to collect Groundwater via a perimeter drainage channel or modular drainage.

This package pump station can withstand hydrostatic forces encountered in applications with high water tables. Pumping applications are invariably demanding – typically operating in unsympathetic, arduous, or extreme environments, where quality matters.

The powerful Delta Goliath/Delta Blue 50 (foul water) pump offers innovative design and advanced technology making it extremely dependable even when subjected to continuous use (subject to correct installation).

The Delta Pluto Packaged Pumping Station sump offers versatility of collecting water from external light-wells. The Delta Pluto packaged pumping station includes chamber, all internal pipe work, valves and pumps.

The extension turret is an innovative design that allows the installer to change the depth of the chamber installation to suit site specific levels. Due to possibility of site complications and changing requirements, it would be useful to be able to extend the depth of the tank. The extension turret is placed on top of the tank and clamped and sealed in place and can be cut at set increments to adjust the height of the pumping station chamber. The focus on this is to aid in reducing of installation time and to provide product flexibility in site conditions.

The Delta Pluto (150, 400, 550) Packaged Pumping Stations are not suitable for collecting foul water, for foul water applications the Delta Foul Blue 50 should be specified.

Specification

- BS 8102:2022 Protection of below ground structures against water ingress. Code of Practice
- NBS Specification R18 (Clause 310) Pumping Stations and Pressure Pipelines



Features

- BBA Approval and Accreditation
- Suitable for ground, surface, storm, and grey water applications
- Flow rate up to 7.5 l/s at up to 11m head
- Chamber manufactured from superior virgin tank grade HDPE enabling the Delta Pluto Packaged Pumping Station to withstand hydrostatic forces encountered in applications with high water tables
- Quick and simple installation
- 156 litre operating storage
- Supplied with Delta Goliath / Foul Blue 50 powerful Delta Pluto Pumps
- Suitable for residential, commercial and heritage projects

Product Details

Delta Dual Pluto	
150 including TT HLA Duty	DMS-T001
400 including TT HLA Duty	DMS-T002
550 including TT HLA Duty	DMS-T003
Delta Pluto Dual Foul Blue 50 (including TT HLA Duty)	DMS-T004
Delta Pluto Extension Turret (inc clamping kit and seal)	DMS-T009

IN PARTNERSHIP WITH T-T

BBA APPROVAL INSPECTION TESTING CERTIFICATION

UK CA CE

DELTA BESPOKE MERCURY FOUL

Description

The Delta 1000 Series - Mercury Foul Packaged Pumping Station is available in association with TT Pumps. The robust and reliable Delta 1000 Series - Mercury Series Packaged Pumping Station has been specifically designed and manufactured in the United Kingdom to provide an efficient and economical way of installing a sewage/drainage pumping station.

The extension turret is an innovative design that allows the installer to change the depth of the chamber installation to suit site specific levels. Due to possibility of site complications and changing requirements, it would be useful to be able to extend the depth of the tank. The extension turret is placed on top of the tank and clamped and sealed in place and can be cut at set increments to adjust the height of the pumping station chamber. The focus on this is to aid in reducing of installation time and to provide product flexibility in site conditions.

The Delta 1000 Series – Mercury Foul Package Pumping Station, is not suitable for collecting ground water from a cavity drained membrane system.



Features

- BBA Approval and Accreditation
- Pump chambers are well engineered and manufactured, and have passed rigorous and detailed testing, site inspections and factory production control assessment
- Each pump chamber is made of strong, medium-density polyethylene
- Smooth internal walls aid the hygienic disposal of effluents, to avoid smells and septicity.
- Comes complete with pipework pre-assembled in the chamber, ready for installation into the ground, after which the pumps and control equipment are added.
- All packaged pumping stations are supplied with controls for fully automatic operation, and a high-level alarm indicator
- Units can be adapted to suit individual requirements at manufacturing stage
- Packages are available on short lead-times to fit in with tight construction schedules.

Specification

- BS 8102:2022 Protection of below ground structures against water ingress. Code of Practice
- BS EN 10256-4:2000 Gravity drainage systems inside buildings - Wastewater lifting plants
- Construction (Design & Management) Regulations 2015
- Construction (Design & Management) Regulations (Northern Ireland) 2016

Product details

Mercury DGO 50	DMS-T005
Mercury DGO 75	DMS-T006
Mercury DGO 100	DMS-T007
Mercury DGO 150	DMS-T008
Extension Turret	DMS-T010

IN PARTNERSHIP WITH T-T

BBA APPROVAL INSPECTION TESTING CERTIFICATION

UK CA CE

LOOSE PACKAGED PUMPING STATIONS

Description

Delta's Loose Packaged Pumping Stations are typical components found in a packaged pumping station but without a chamber.

All Internal pipework components such as pipes, valves, guard rails and control panels are provided separately, and require on-site assembly and installation by the installing engineer/contractor.

Delta's Loose Packaged Pumping Stations offer a customisable and flexible solution.

Delta's Loose Packaged Pumping Stations are ideal for applications involving groundwater, foul and surface water along with single or twin discharge.

All Delta IP pumping stations are fabricated to include internal class E pipework, non-return valve(s) and guide rails (where applicable).

Loose Packaged Pumping Stations are set up where pumps, motors, and components are not pre-assembled or "packaged" together in a single unit. All components are supplied and installed separately rather than pre-assembled as a single unit.

In areas with limited site access or where HDPE chambers cannot be installed, consider using reinforced concrete (RC) for loose packaged pumping stations. Reinforced concrete (RC) pumping stations can be customised for various applications and are ideal for projects needing larger or deeper chambers or sites requiring non-chamber designs.

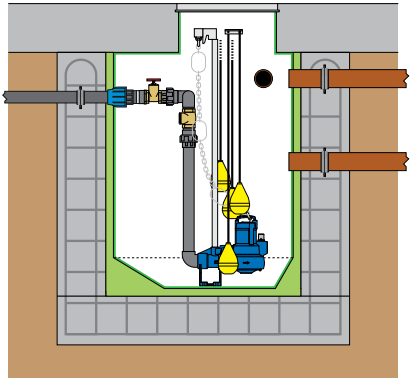
Reinforced Concrete (RC) chambers must be built with a reliable waterproofing system. We recommend using Delta Amphibia WT Construction, AKTI-VO 201, Delta Epoxy Coating, waterproof concrete, and Koster Mortar Tight. For site-specific assistance, please reach out to Delta's Technical Team.

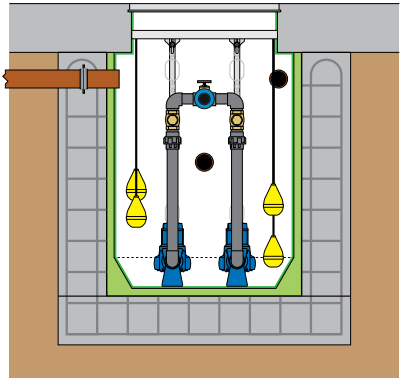
Benefits

- Suitable for RC pits at depths of 1m, 2m, and 3m
- Guide Rails, Pedestals and Unistruts at depths of 1m, 2m and 3m
- High-performance pump range that can be selected to meet site specifics requirements
- Available with Control Systems
- Available on short lead times to fit with project schedules
- Access covers available as optional extra upon request









DRAINAGE CHANNELS & ACCESSORIES



DELTA CHANNEL WITH UPSTAND

Delta Perimeter Drainage Channel is a component part used within a Type C Cavity Drainage System. Delta Channel is a distinctive yellow, PVC drainage conduit designed to manage water ingress and hydrostatic water pressure in basements and below ground structures. Channel with upstand keeps the channel stable when abutting the Delta membrane on a perimeter wall.

DMS 207	**Length 2m**



DELTA CHANNEL WITHOUT UPSTAND

Delta Perimeter Drainage Channel is a component part used within a Type C Cavity Drainage System. Delta Channel is a distinctive yellow, PVC drainage conduit designed to manage water ingress and hydrostatic water pressure in basements and below ground structures. Channel without upstand is used where cross channels sit over construction joints in the middle of the floor, when Delta Channel is to be offset from the wall or to join two perimeter channels together across a floor.

DMS 208	**Length 2m**

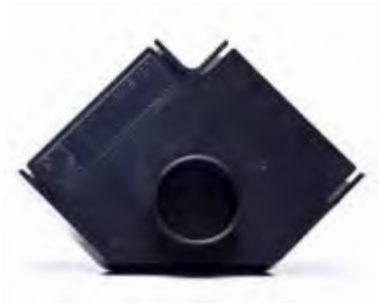


STRAIGHT CONNECTORS

Straight connectors for connecting Delta channel (with or without upstand). Also known as Delta "in line". The range of Delta drainage channel ancillary components make installation more efficient and quicker.

DMS 310	

DRAINAGE CHANNELS & ACCESSORIES



CORNER PIECES

Delta "90 degree" Corner Connector with "Push Out" feature for inspection port. Can be used to join lengths of Delta channel on both internal and external corner sections.

DMS 182



T PIECES

T Pieces, also known as "Tee Connectors", facilitates crossing 3 channels together to dissect the floor or to discharge to a centrally located sump pump. The T Pieces include a "Push Out" feature for inspection port to service the system.

DMS 183



END CAPS

End Caps have a dual role and can work as either a blanking plate (at the far end of a channel run) or can be converted easily (with their "Push Out" feature) for easy fit of drainage pipe outlet (connector) to join with the sump pump station.

DMS 184



110 DRAINAGE CHANNEL

110mm Drainage Outlet is designed to join the channel to 110mm standard underground pipe. The 110mm Drainage Outlet consists of a 90° PVC bend and a PVC male coupling which is fitted to the base of Delta Channel to allow water to travel from the conduit to the water collection point (sump pump). The 110mm Drainage Outlet can also accept an inspection port and has the ability cross floor channels.

DMS 128

DRAINAGE CHANNELS & ACCESSORIES



MS 20 FLUSHING / ACCESS PORT

The MS20 access port enables the 20mm cavity to be inspected and flushed through should the need arise, thus making the whole cavity drain system maintainable and further reducing the risks in the long term.

DMS 124



INSPECTION PORT (JETTING EYE)

Inspection Ports are designed for use with perimeter drainage channel (with or without upstand DMS 207/DMS 208). Inspection ports allow for maintenance and future cleaning/flushing of the drainage system (with a suitable anti-lime solution (if required).

DMS 094



ACCESS PORT UNIT

Preformed unit of Delta perimeter drainage channel with inspection port. Used to provide cleaning, inspection, and maintenance access to the Delta drainage channel system.

DMS 117



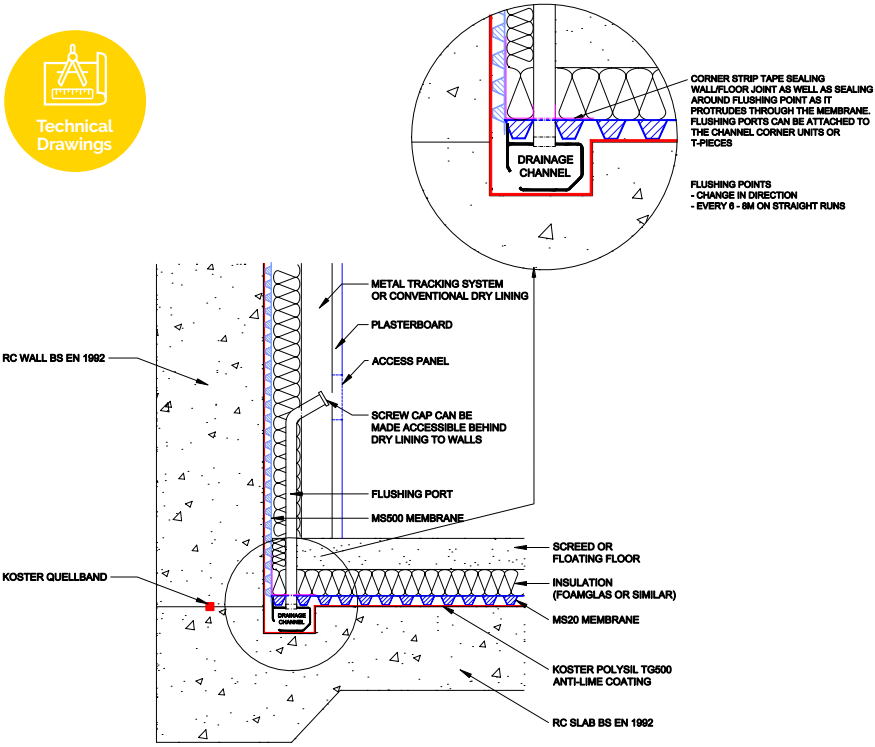
DRAINAGE CONNECTOR

Drainage Connector (outlet) is used for connection underneath/underside of Delta perimeter drainage channel, ideal for continuous waterproofing at level changes. Connects to 40mm pipe enabling drainage channel connection from below.

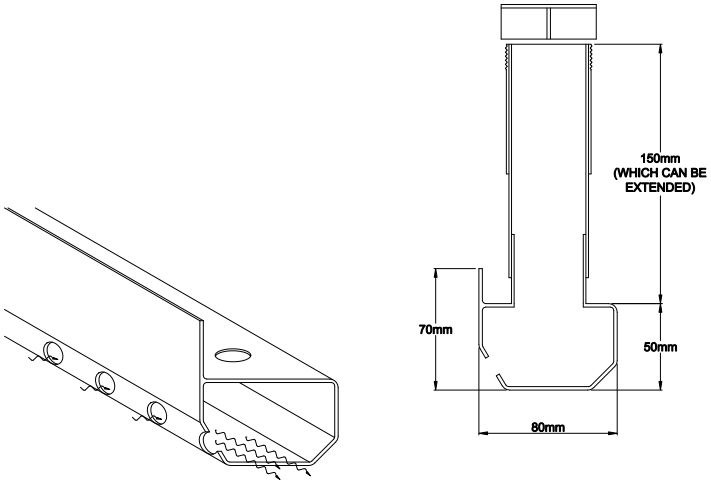
DMS 118

FLUSHING PORT ACCESS PANEL

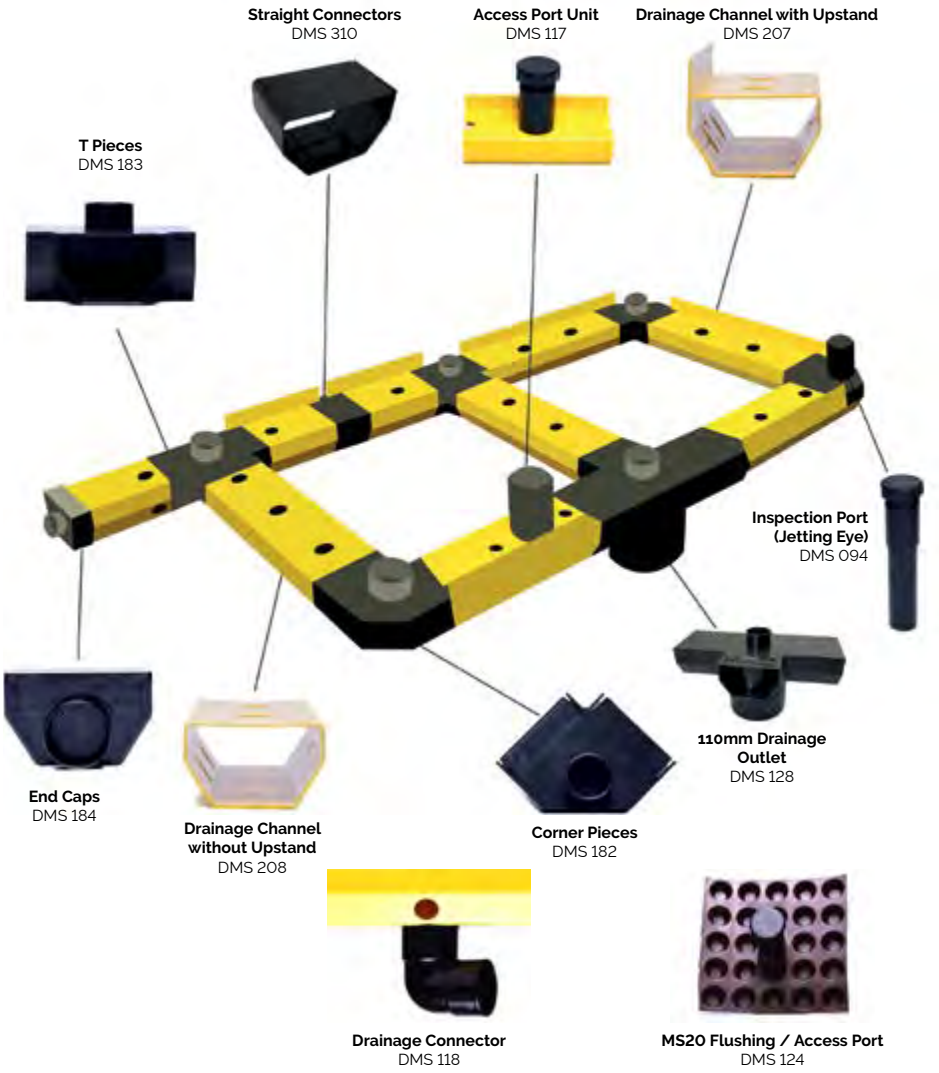
Technical Drawings



DRAINAGE CHANNEL & FLUSHING PORT DETAIL



DRAINAGE CONFIGURATION



STRAIGHT CONNECTORS

Straight connectors for connecting Delta channel (with or without upstand). Also known as Delta "in line". The range of Delta drainage channel ancillary components make installation more efficient and quicker.

DMS 310

T PIECES

T Pieces, also known as "Tee Connectors", facilitates crossing 3 channels together to dissect the floor or to discharge to a centrally located sump pump. The T Pieces include a "Push Out" feature for inspection port, to service the system.

DMS 183

END CAPS

End Caps have a dual role and can work as either a blanking plate (at the far end of a channel run) or can be converted easily (with their "Push Out" feature) for easy fit of drainage pipe outlet (connector) to join with the sump pump station.

DMS 184

DRAINAGE CHANNEL WITHOUT UPSTAND

Delta Perimeter Drainage Channel is a component part used within a Type C Cavity Drainage System. Delta Channel is a distinctive yellow, PVC drainage conduit designed to manage water ingress and hydrostatic water pressure in basements and below ground structures. Channel without upstand is used where cross channels sit over construction joints in the middle of the floor, when Delta Channel is to be offset from the wall or to join two perimeter channels together across a floor.

DMS 208

DRAINAGE CHANNEL WITH UPSTAND

Delta Perimeter Drainage Channel is a component part used within a Type C Cavity Drainage System. Delta Channel is a distinctive yellow, PVC drainage conduit designed to manage water ingress and hydrostatic water pressure in basements and below ground structures. Channel with upstand keeps the channel stable when abutting the Delta membrane on a perimeter wall.

DMS 207

CORNER PIECES

Delta "90 degree" Corner Connector with "Push Out" feature for inspection port. Can be used to join lengths of Delta channels on both internal and external corner sections.

DMS 182

INSPECTION PORT (JETTING EYES)

Inspection Ports are designed for use with perimeter drainage channel (with or without upstand DMS 207/DMS 208). Inspection ports allow for maintenance and future cleaning/flushing of the drainage system (with a suitable anti-lime solution (if required)).

DMS 094

110MM DRAINAGE OUTLET

110mm Drainage Outlet is designed to join the channel to 110mm standard underground pipe. The 110mm Drainage Outlet consists of a 90° PVC bend and a PVC male coupling which is fitted to the base of Delta Channel to allow water to travel from the conduit to the water collection point (sump pump). The 110mm Drainage Outlet can also accept an inspection port and has the ability cross floor channels.

DMS 128

DRAINAGE CONNECTOR

Drainage Connector (outlet) is used for connection underneath/underside of Delta perimeter drainage channel, ideal for continuous waterproofing at level changes. Connects to 40mm pipe enabling drainage channel connection from below.

DMS 118

DRAINAGE CHANNELS & ACCESSORIES

1¼" pipework and fittings

DMS	Product	Qty
E100	1¼" pressure pipe, PVC Class E (2 m)	
E110	PVC, tank connector, 1¼"	
E101	PVC, 90 degree elbow PL/PL, 1¼"	
E102	PVC, 45 degree elbow PL/PL, 1¼"	
E105	PVC, tee-piece PL/PL, 1¼"	
E103	PVC, coupling (socket) PL/PL, 1¼"	
E106	PVC, socket union PL/PL, 1¼"	
E104	PVC, male threaded adaptor, 1¼"	
E107	PVC, coupling PL/TH, 1¼"	
E108	PVC, barrel nipple PL/TH, 1¼"	
E109	PVC, barrel nipple TH/TH 1¼"	
E111	PVC, coupling TH/TH female 1¼"	
E112	32 mm male iron, low pressure	
E114	1¼" O-ring for socket union, EPDM	
E113	PP saddle clamp, 110 mm x 1¼" BSP	
E201	PP, industrial pipe clip, black, 1¼"	

2" pipework and fittings

DMS	Product	Qty
E120	2" Pressure Pipe PVC Class E (2 m)	
E130	PVC, tank connector, 2"	
E121	PVC, 90 degree elbow PL/PL, 2"	
E122	PVC, 45 degree elbow PL/PL, 2"	
E125	PVC, tee-piece PL/PL, 2"	
E123	PVC, coupling (socket) PL/PL, 2"	
E126	PVC, socket union PL/PL, 2"	
E124	PVC, male threaded adaptor, 2"	
E127	PVC, coupling PL/TH, 2"	
E128	PVC, barrel nipple PL/TH, 2"	
E129	PVC, barrel nipple TH/TH, 2"	
E131	PVC, coupling (socket) TH/TH, 2"	
E132	50mm male iron, low pressure, white	
E134	2" BSP backnut, white c/w washer	
E135	2" O-ring for socket union, EPDM	
E133	PP saddle clamp, 110 mm x 2" BSP	
E202	PP, industrial pipe clip, black, 2"	

1¼" to 2" reducer kit

DMS	Product	Qty
E219	Delta 2" to 1¼" Reducer Kit	
E160	PVC, 2"–1½" reducing socket, PL/PL	
E161	PVC, 1½"–1¼" reducing bush, PL/TH	

2½" pipework and fittings

DMS	Product	Qty
E140	2½" pressure pipe PVC Class E (2 m)	
E145	PVC, tank connector, 2½"	
E144	PVC, male threaded adaptor, 2½"	
E142	PVC, 45 degree elbow PL/PL, 2½"	
E141	PVC, 90 degree elbow PL/PL, 2½"	
E143	PVC, coupling (socket) PL/PL, 2½"	
E146	PP saddle clamp 110 mm x 2½" BSP	

3" pipework and fittings

DMS	Product	Qty
E150	3" pressure pipe PVC Class E (2 m)	
E155	PVC, tank connector, 3"	
E154	PVC, male threaded adaptor, 3"	
E152	PVC, 45 degree elbow PL/PL, 3"	
E151	PVC, 90 degree elbow PL/PL, 3"	
E153	PVC, coupling (socket) PL/PL, 3"	
E156	PP saddle clamp 110 mm x 3" BSP	

Miscellaneous

DMS	Product	Qty
E175	Solvent cement, WDF-05, 250 ml	
E176	PVC cleaning fluid, 500 ml, tin	
E177	PTFE tape, roll	

Company name

Contact name

Telephone

Email

PO #

Date D D M M Y Y

OFFICE ONLY

Net £

Approved by D D M M Y Y

DRAINAGE CHANNELS & ACCESSORIES



Pressure pipe, PVC Class E, 2 m

1¼"	2"	2½"	3"
E100	E120	E140	E150



Tank connector

1¼"	2"	2½"	3"
E110	E130	E145	E155



90° elbow PL/PL

1¼"	2"	2½"	3"
E101	E121	E141	E151



45° elbow PL/PL

1¼"	2"	2½"	3"
E102	E122	E142	E152



Tee-piece PL/PL

1¼"	2"	2½"	3"
E105	E125	–	–



Coupling (socket) PL/PL

1¼"	2"	2½"	3"
E103	E123	E143	E153



Socket union PL/PL

1¼"	2"	2½"	3"
E106	E126	–	–



Male threaded adaptor

1¼"	2"	2½"	3"
E104	E124	E144	E154



Coupling PL/TH

1¼"	2"	2½"	3"
E107	E127	–	–



Barrel nipple PL/TH

1¼"	2"	2½"	3"
E108	E128	–	–



Barrel nipple TH/TH

1¼"	2"	2½"	3"
E109	E129	–	–



Coupling TH/TH

1¼"	2"	2½"	3"
E111	E133	–	–



Delta 2" to 1¼" Reducer Kit

2" to 1¼"

E219



Reducing socket, PL/PL

2" to 1½"

E160



Reducing bush, PL/TH

1½" to 1¼"

E161



Male iron, low pressure

1¼"/32 mm	2"/50 mm
E112	E132



Backnut, ABS c/w rubber washer

2" BSP

E134



O-ring for socket union

1¼"	2"
E114	E135



110mm saddle clamp, reinforced

1¼"	2"	2½"	3"
E113	E133	E146	E156



Rubber drain coupling

50–65 mm

E174



Rubber wall seal

50 mm	110 mm	160 mm
E168	E169	E170



Brass gate valve

1¼"	2"
E187	E188



Brass swing check valve

1¼"	2"
E191	E193



Delta V3/4/6 non-return valve

1¼"

E195



PP, industrial pipe clip, black

1¼"	2"
E201	E202



Solvent cement, WDF-05

250 ml

E175



PVC cleaning fluid

500 ml

E176



PTFE tape, roll

12mm x 12m

E177



3

GROUND GAS PROTECTION

Gas protection systems are critical in projects constructed on land affected by permanent ground gas and/or volatile organic compound (VOC) contamination.

Delta Membrane Systems Limited supplies a comprehensive range of gas barrier membranes and ventilation systems designed to protect against permanent ground gases and VOCs.

GROUND GAS BARRIERS

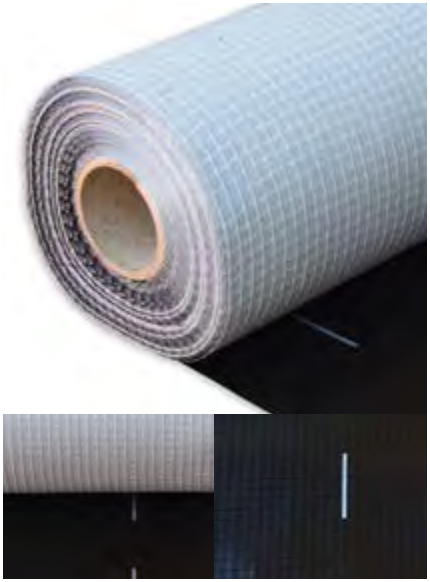


DELTA GAS BARRIER DPM

Delta Gas Barrier DPM provides permanent protection from Radon (Rn) Gas whilst forming a protection layer against rising damp. Delta Gas Barrier has an anti-slip profile on both sides which stabilises the sheet and optimises adhesion to mortars.

- Resistant to Radon ground gas
- Special polyolefin blend forming a sheet approx. 0.4 mm thick
- Flexible and easy to install
- Resistant to extreme temperatures, chemicals, root penetration, rot proof /UV-stabilised

DMS 119	4m x 25m



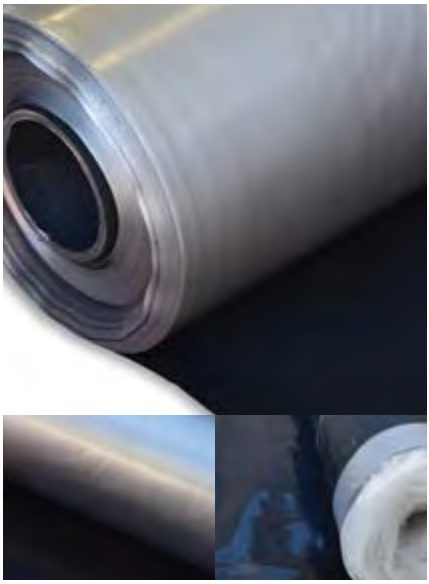
PRO M1

Pro M1 is a flexible, loose laid ground gas barrier membrane made from low-density polythene with polypropylene reinforcement grid and aluminium foil core layer.

- For use on sites with Radon, Carbon Dioxide and Methane
- Gas and damp proof membrane
- BS 8485:2015+A1:2019 Table 7 Compliant
- Can be tape jointed or heat welded

DMS 402	2m x 50m

GROUND GAS BARRIERS



PRO TITAN VOC

Pro Titan VOC complies with the latest codes of practice as published by BRE, CIRIA (748) and BS 8485:2015+A1:2019. PRO Titan VOC is suitable for use as ground gas/hydrocarbon protection for NHBC Green, Amber1, Amber2 and Red sites.

- VOC/Hydrocarbon/Methane/Carbon Dioxide & Radon Barrier
- Suitable for new build & refurbishment projects
- High resistance to puncturing
- Multi-layered unique core component

DMS 403	**2m x 50m**



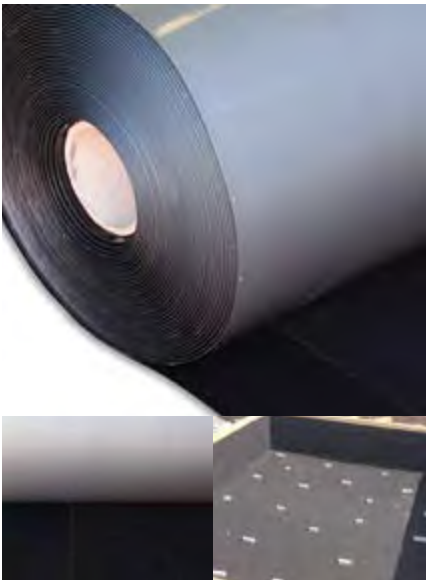
PRO LIQUID GAS BARRIER

Pro Liquid Gas Barrier ("LGB") is a multi-use synthetic rubber-based gas protection and waterproofing system. Pro LGB offers a simple, continuous passive gas prevention barrier against the ingress of methane, carbon dioxide, radon, ground gas, VOC, air and moisture into buildings.

- Liquid applied by brush, roller, or airless spray
- Can be used for providing damp proofing, gas proofing or waterproofing
- Suitable for new build & refurbishment projects
- Methane, Carbon Dioxide and hydrocarbon vapour suppression.

DMS 405	**15kg**

GROUND GAS BARRIERS



PRO TITAN BOND

Pro Titan Bond hydrocarbon barrier offers a safe solution for the protection of occupiers against all levels of Hydrocarbon, Methane, Carbon Dioxide and Radon gas ingress. Complies with the latest codes of practice as published by BRE, CIRIA (748) and BS 8485:2015+A1:2019 and BS 8102:2022.

- Suitable for use as ground gas/hydrocarbon protection for NHBC Green, Amber1, Amber2 and Red sites
- Ground Gas protection and waterproofing in one product
- Bonds fully with concrete

DMS 437	**1.9m x 25m**



PRO TITAN TANK

Pro Titan Tank is a post applied waterproof and ground gas membrane offering a safe solution for the protection of buildings, structures, and occupiers against all levels of Hydrocarbon, VOCs, Methane, Carbon Dioxide and Radon gas ingress.

- Suitable for new build basements, tunnels, and concrete structures below ground
- Exceptional chemical resistance
- High resistance to puncturing
- Can be used for providing damp proofing, gas proofing or waterproofing

DMS 438	**0.9m x 20m**

GROUND GAS BARRIERS / TAPES



DELTA AT 800

Delta AT 800 is an innovative Type C Drainage Membrane which conforms to BS 8102:2022 and BS 8485:2015+A1:2019, Table 7 achieving waterproofing and ground gas protection simultaneously.

- 9mm studded profile
- Compatible with all types of construction
- Suitable for high volumes of water penetration
- Reversible system
- Durable for 100 years in natural soil with 4 ≤ pH ≤ 9 and soil temperature ≤ 25 °C.

DMS 026	2m x 20m

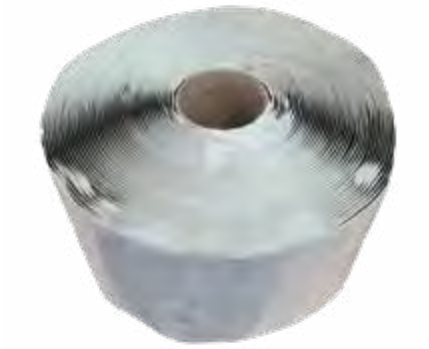


DELTA LM 800

Delta DPM LM 800 is a liquid applied Damp Proof Membrane used in construction to prevent moisture from entering buildings. It's placed between the concrete floor and screed finishes to protect structures and interiors from moisture effects. Ideal for refurbishment projects where the concrete slab remains unchanged.

- Waterproof and damp proof
- Multiple physical properties, including resistance to methane, carbon dioxide and radon
- Ideal for complex detailing and difficult to reach areas/ Fully bonded system

DMS 035	10kg



PRO TITAN TAPE

A highly flexible, double sided butyl tape. Pro Titan Tape is designed with a layer of release film on both sides to assist during installation. This multi-purpose tape prevents water, water vapour, air and gas when used in conjunction with gas barriers, vapour control layers and damp proof membranes. The tapes flexibility enables installation on irregular surfaces accurately with little to no waste. Pro Titan Tape can adhere to all our gas barriers and an extensive variety of substrates.

DMS 439	100mm X 15m

GROUND GAS TAPES



DETAILING STRIP

Detailing Strip is a superior 300mm wide, self-adhesive gas membrane designed specifically to aid detailing and sealing around pipe penetrations and internal and external corners. Detailing Strip can also be used for repairing tears and other damage to ground gas membranes.

DMS 413	300mm X 20m



GAS TAPE 50

Gas Tape 50 is a specialist butyl double sided sealing tape. This strong and durable tape is ideal for sealing between over lapping sheets of gas membrane.

DMS 411	50mm X 10m



GAS OVER TAPE 150

Gas Over Tape 150 is a durable butyl single sided tape. Gas Over Tape is designed with an aluminium foil backing. This unique foil provides a secondary seal to gas membrane joints and for detailing around service penetrations.

DMS 412	150mm X 30m



PRO TITAN EXTERNAL TAPE

A 300mm wide by 20m long single-sided self-adhesive tape. Used as an under-tape for forming lap joints with Pro Titan Bond. Note that wherever possible, plastic membranes should be welded when used as primary protection against ingress of Hydrocarbons and VOC's, in accordance with CIRIA C748, Guidance on the use of plastic membranes as VOC barriers.

DMS 440	300mm x 20m

Upgrade to Delta AT 800 for unbeatable protection! This advanced Type C system meets BS 8102:2022 and BS 8485:2015+A1:2019. It offers superior drainage and shields from harmful gases like Carbon Dioxide, Radon, and Methane. Delta AT 800 isn't just a product; it's your guard against dangerous gases and contaminants. Ensure your building's safety with this cutting-edge membrane!

Ground Gas Protection Membranes are crucial for occupant safety in buildings. Delta AT 800 is highly effective for developers, it effectively safeguards brownfield and contaminated site projects against gaseous and chemical contamination.

Features and benefits

- 9mm studded profile
- Air volume between studs: 7.9 l/s m^2
- An effective barrier to gas – including Methane, CO2 and Radon
- Table 7, BS 8485:2015+A1:2019 Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings
- BS 8102:2022 Type C Waterproofing Protection
- Suitable for new and existing structures





Delta Membranes

Delta AT 800

Discover Delta AT 800, the cutting-edge Type C Drainage Membrane that meets BS 8102:2022 and BS 8485:2015+A1:2019 Standards. Achieve superior Waterproofing and Ground Gas Protection in one application!



Discover peace of mind today

Call 01992 523 523 or
email info@deltamembranes.com for details

DELTA MEMBRANES

MEMBRANE GUIDES

MEMBRANE	APPLICATION	WORKING AREA	RADON	CO2 METHANE
Delta AT 800 2m x 20m 9mm stud DMS 026	Internal Wall Internal Floor Cavity Drained Protection	38.66m2	X	X
Delta LM 800 10kg DMS 035	Internal Wall Internal Floor Detailing	10m2 based on 2 coat application 0.5kg/m2 per coat minimum thickness 1mm	X	X
Pro M1 2m x 50m DMS 402	Internal Wall Internal Floor		X	X
Pro Titan VOC 2m x 50m DMS 403	Internal Wall Internal Floor External under floor slab External walls in ground level installation		X	X
Pro Liquid Gas Barrier 15kg DMS 405	Internal Wall Internal Floor Detailing		X	X

All information is provided as an estimate. For site-specific assistance, please contact Delta's Technical Team at info@deltamembranes.com or call 01992 523 523.

MEMBRANE GUIDES

VOCS/ HYDROCARBONS	WATERPROOFING	DAMP PROOFING	ANCILLARIES	OTHER INFORMATION
	X	X	Delta Qwikseal Plugs Delta Gas Tape 50 Delta Gas Over Tape 150 Delta LM 800 Expanding Flexi-Dri Plus Plug can be used for soft and/or friable substrates.	Ground gas protection and waterproofing in one product.
	X	X	Delta AT 800 Pro M1 Gas Over Tape 150	Conforms to Table 7 BS 8485:2015+A1:2019
			Gas Tape 50 Gas Over Tape 150 Detailing Strip Pro Void Vent	Can be tape jointed or heat welded Conforms to Table 7 BS 8485:2015+A1:2019
X*		X	Pro Titan External Tape Detailing Strip. *Must be heat welded when used for VOC's	Suitable for new building and refurbishment projects. *Must be heat welded when used for VOC's
X Only where separated by new construction from source.	X	X	Koster NB 1 Delta AT 800 Pro M1 Pro R1 Gas Over Tape 150	Applied by brush, roller or airless spray

MEMBRANE GUIDES

MEMBRANE	APPLICATION	WORKING AREA	RADON	CO2 METHANE
Pro Titan Bond 1.9m x 25m DMS 437	External under floor slab External Wall		X	X
Pro Titan Tank 0.9m x 20m DMS 438	External Wall Internal Floor Detailing		X	X
Delta DualProof 1.08m x 20m DMS 480	Pre-Applied Wall Pre-Applied Floor Type A Barrier Protection Retaining Walls		X	
Delta Amphibia 0.9m x 10m DMS 1035 1.8m x 20m DMS 1036	Pre-Applied Wall Pre-Applied Floor Type A Barrier Protection Retaining Walls/ Structures Fully bonded to concrete.		X	
Pro Void Vent 25 0.9m x 50m DMS 404	Under floor slab Ventilation System		X	
Delta Gas Barrier DPM 4m x 25m DMS 119	Damp proof membrane Foundations Walls		X	

All information is provided as an estimate. For site-specific assistance, please contact Delta's Technical Team at info@deltamembranes.com or call 01992 523 523.

MEMBRANE GUIDES

VOCS/ HYDROCARBONS	WATERPROOFING	DAMP PROOFING	ANCILLARIES	OTHER INFORMATION
X*	X*	X	*Joints to be heat welded when used as VOC barrier Detailing Strip Pro Titan Tape Pro Titan External Tape	Bonds fully with concrete. Ground gas protection and waterproofing in one product. *Joints to be heat welded when used as VOC barrier
X	X	X	Detailing Strip Pro Titan Tape Pro Titan External Tape	
	X	X	CEM 805	
	X	X	Delta Amphibia WT Construction/ Expansion/Panel Delta Amphibia Safety Tape Delta Amphibia Stoppers Delta Amphibia Pressure Corners/Line Delta Amphibia Lap Seal Delta Amphibia AKTI-VO 201 Delta Amphibia BI Mastic	Self-healing, self-sealing, self-repairing. Type A fully Bonded waterproofing in accordance with BS 8102:2022 Section 8 *As part of a combined system to reduce gas transmission.
				Pro Void Vent 25 offers a passive venting solution which facilitates the dispersal and dilution of dangerous ground gases.
			Delta Cornerstrip Delta Sealing Tape Delta Sealing Rope Gas Tape 50 Gas Over Tape 150 Delta LM 800	



3

VENTILATION

A passive ventilation system when connected to air inlets and outlets allows for passive venting solution to facilitate safe dilution and dispersal of dangerous ground gases allowing for maximum flexibility to design.

Delta's passive ventilation system works beneath the footprint of the structure to dilute hazardous gases to a safe level and then to disperse them into the atmosphere.



PRO VOID VENT 25

Pro Void Vent 25 offers a passive venting solution which facilitates the dispersal and dilution of dangerous gases. Pro Void Vent 25 has been specially designed to provide for high levels of air and/or gas flow.

- Creates a de-pressurisation zone for collection of ground gases
- Tough, durable design
- Quick & easy application
- High gas flow capacity

DMS 404	**0.9m x 50m**



GROUND GAS MITIGATION

Gas protection is a technical solution to prevent or to control gas penetration into properties. The control of gas migration is normally achieved by blocking the pathway or removing the source of gas generation. A passive ventilation system when connected to air inlets and outlets allows for passive venting solution to facilitate safe dilution and dispersal of dangerous ground gases allowing for maximum flexibility to design. A Ground Gas Protection System Design Specialist will be able to interpret the requirements of BS8485:2015+A1:2019 to produce a design which incorporates a suitable gas protection system. Pro Void Vent 25 systems can be designed, supplied and installed by our highly skilled Delta Registered Installers.

VENTILATION



MITIGATION FAN

All RadonAway® fans are specifically designed for Radon mitigation. RPi Series Fans provide superb performance, run ultra-quiet and are attractive. They are ideal for most sub-slab Radon mitigation systems.

- Stay-White™ housing
- Energy efficient, ultra-quiet operation
- Seams sealed to inhibit Radon leakage (RP145i double snap sealed)
- ETL Listed - for indoor or outdoor use

DMS 700	**145i**
DMS 701	**265i**



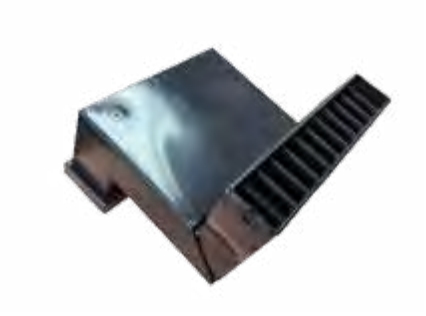
RADON SUMP

A Radon Sump is a rotationally moulded plastic unit designed to act as a collection point for Radon gas prior to it being ventilated away when connected to a mitigation fan.

- 4 Spigots for 110mm pipe connections
- Designed to collect Radon gas so that it can be safely ventilated away
- Manufactured from medium density poly-ethylene plastic
- Works effectively under solid floors and under suspended floors

DMS 045	

VENTILATION



ADJUSTABLE PERISCOPE RECTANGULAR VENT UNIT

Adjustable Periscope Vent is designed to provide a clear airflow passage to a void beneath block and beam and timber floors. The adjustable periscope vent allows for adjustment between brick courses. 9 x 3 inches air brick attached to vent equates ventilation space of approx 6,000mm².

DMS 432



RECTANGULAR VENT UNIT

The Rectangular Vent unit is a strong, robust vent suitable for use with gas ventilation systems. This multi-purpose vent allows gas and unwanted odours to be released into the external atmosphere.

DMS 421



VENT MAT TEE CONNECTOR

Vent Mat Tee Connector, also known as a T Fitting, enables connection of Pro Void Vent 25 mat to ventilation ducting. This Mat Tee Connector has a characteristic 'T' shape with outputs at 90 degree angles.

DMS 430



VENT MAT CONNECTOR

The Vent Mat Connector is specifically designed to be used to connect the Pro Void Vent mat with the Adjustable Periscope Vent.

DMS 428

ANCILLARIES



GAS VENT MAT CONNECTOR

The Gas Vent Mat Connector is specifically designed to be used to connect the Pro Void Vent mat with the 100mm circular outlet enabling connection via 100mm solid pipe to vent box, vent bollard and/or vent gully.

DMS 431	



SOLID CONNECTOR PIPE

Solid Connector Pipe is a strong, robust pipe, with a ribbed outer layer. The ribbed outer layer highly increases the solid pipes strength, enabling the pipe to withstand larger forces.

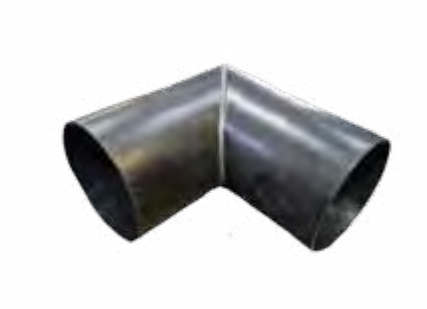
DMS 436	110mm x 1m



SLOTTED CARRIER PIPE

The 100mm Slotted Carrier Pipe has a 25mm slot cut along its length to accommodate the Void Vent Mat. The Void Vent Mat can easily be fitted into the slot which allows the Void Vent Mat to cover the entire footprint of the structure.

DMS 427	



90 DEGREE BEND

The 90-degree bend enables two sections of 100mm solid pipe where changes of direction are required. This 90-degree bend is suitable to fit on both internal and external corner sections.

DMS 424	750mm x 110mm

ANCILLARIES



END CAP / PIPE COUPLING

The End Cap can be fitted to the end of a Solid 100mm Pipe, the 100mm Slotted Pipe and also the 100mm Vent Mat Tee Connector. The End Cap creates a dead end for the flow of ground gas. The Pipe Coupling enables simple connection of varying lengths of 100mm pipe.

DMS 426	**End Cap**
DMS 425	**Pipe Coupling**



110MM PIPE SLEEVE

The pre-formed Pipe Sleeve 110mm is commonly known as a 'top hat' and are designed to offer a professional gas resistant solution for sealing ground gas membranes around service penetrations. Images show M1 membrane (1) and Tital VOC (2) which are suitable to varying ground gas requirements. [Available in any size as we make these to order with a 3-5 day turnaround].

DMS 444	



CIRCULAR VENT ALLOY GRILL

The Circular Vent - Alloy Grill is an alternative to the Rectangular Vent. A strong, robust vent suitable for use with gas ventilation systems. This multi-purpose vent allows gas and unwanted odours to be released into the external atmosphere.

DMS 422	



VENT BOLLARD

Vent Bollard offers an alternative method of ground gas venting to the Vent Box/Circular Vent Gully. The Vent Bollard provides an efficient and economical method for venting ground gases from Vent Mat Systems. For projects where alternative venting methods are required or if there is a higher level of free air flow required.

DMS 435	

ANCILLARIES



AIR BRICK

Air brick for venting harmful ground gases from a property. The air brick replaces an external masonry brick. It incorporates a front mounted louvered grill to permit airflow while blocking out wind driven rain and prohibiting large insects from gaining access.

DMS 457



PRO INLET PIPE SECTION T-PIECE

Pro Inlet pipe section T-Piece is a robust pipe connector. Compatible with all Pro Void Vent 25 pipes. This T-Piece is useful if you wish to funnel two points of collection to one point.

DMS 458

VOID FORM CONNECTORS

Void Form Outlet Connectors are a strong, secure connectors for the Pro Void Vent 25 system. Void Form Connectors are designed to connect the Pro Void Vent 25 membrane to outlets such as bollards or vents. The function of a venting system is to carry harmful ground gases efficiently, safely and quickly from beneath a structure and dispersal of these gases into the atmosphere. Void Vent outlet connectors are an integral part of any ventilation system. The type of venting outlet and fittings to disperse gases is dependent on the structure type and the level of gas flow found at the site. Pro Void Vent 25 is engineered for the geotextile filter side to connect with the ground. Pro Void Vent 25 is laid on a sand or concrete blinding layer under the ground floor slab below the gas barrier membrane to provide passive ventilation in accordance with BS8485:2015+A1:2019. Pro Void Vent 25 can be laid in strips at 6m centres or across the entire footprint of the building depending on CS classification and dimensions of the building to provide the appropriate level of ventilation in accordance with BS 8485:2015+A1:2019.



DETAILING



PRO TITAN INSTALLATION



RESIDENTIAL PROPERTY



HYDROCARBON LAYER FOUND AT RESIDENTIAL PROPERTY



PRO M1 INSTALLATION



PENETRATION DETAILING



GROUND GAS PROTECTION AT COMMERCIAL STRUCTURE

GROUND GAS PROTECTION



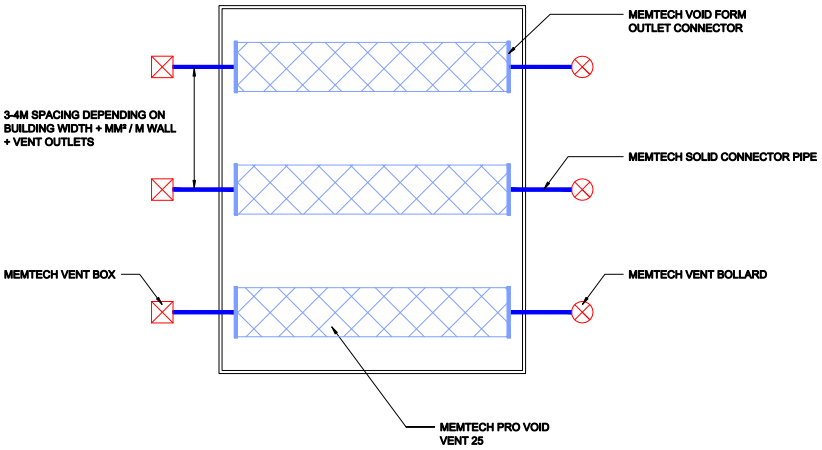
PRO LIQUID GAS BARRIER



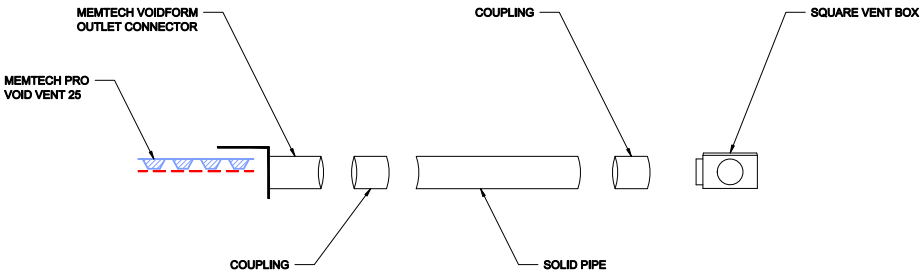
PRO VOID VENT 25

TYPICAL PRO VOID VENT 25 LAYOUT

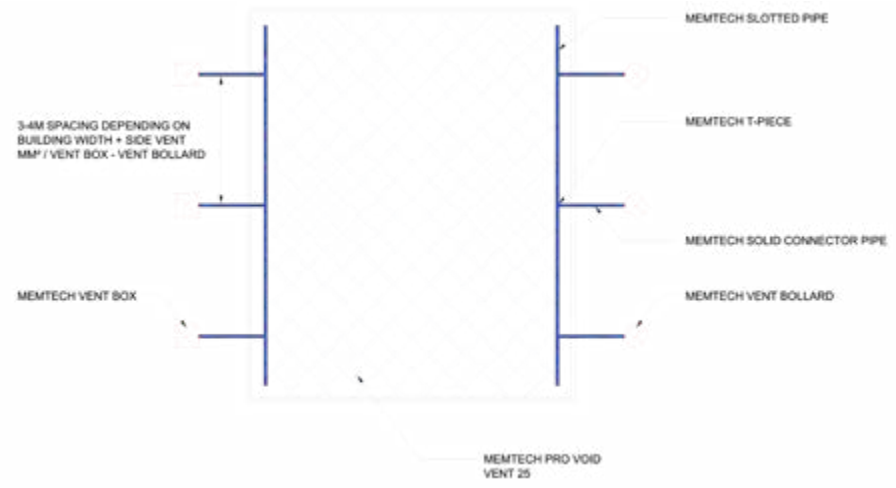
Technical Drawings



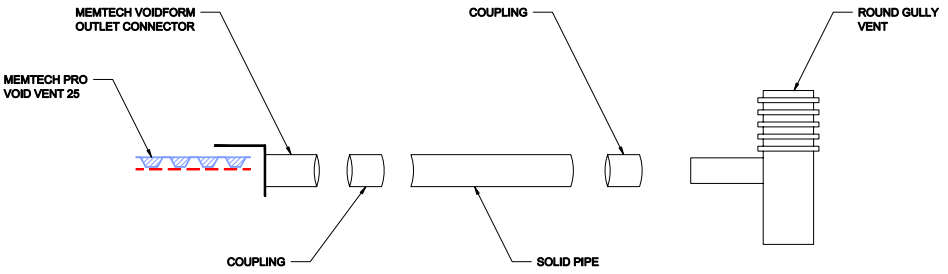
PRO VOID VENT 25 - WITH SQUARE VENT BOX



TYPICAL PRO VOID VENT 25 MATT LAYOUT



PRO VOID VENT 25 - WITH GULLY VENT





4

BROOF(t4)

COLD LIQUID APPLIED WATERPROOFING

Delta Roof Guard Cold Applied Liquid Waterproofing Systems are engineered to provide a fast curing, flexible, elastomeric solution.

This cost-effective cold liquid water proofer is suitable for new or existing projects without the requirement for mechanical restraint, welding, or torching, negating any fire risk during application.

ROOF GUARD BROOF(t4)



DELTA ROOF GUARD QC

A rapid curing one-component, liquid waterproofing membrane which is laid in a 2-layer system, enabling Delta Roof Guard Glass Fibre Reinforcement to be embedded in the base layer. Offering a faster curing time, as the 2-layer system will allow for inspection of the base layer prior to application of the top coat.

- Broof(t4)
- Exceptionally fast curing
- Compatible with a wide range of substrates
- Green Roof Approved

DMS 800	**25kg**



DELTA ROOF GUARD CP

Delta Roof Guard CP is a two-part cold applied liquid polyurea waterproof membrane. The membrane cures in a continuous and elastic form, as a totally adhered layer. This waterproofing layer guarantees total water tightness and withstands building movements.

- Broof(t4)
- BBA Approved
- Supplied with 1.5kg Delta Super-Accelerant
- Seamless applications - no joints or fixings

DMS 801	**26.5kg**



DELTA ROOF GUARD SUPER-ACCELERANT

A high performance, single component, moisture instigated polyurethane when added to Delta Roof Guard CP dramatically reduces cure time.

- Broof(t4)
- Dramatically reduces cure time of Delta Roof Guard CP
- Moisture instigated chemical reaction
- Minimises application failure

DMS 808	**1.5kg**

ROOF GUARD BROOF(t4)



DELTA ROOF GUARD GENERAL PRIMER

A single component polyurethane resin primer for improving the adhesion of Delta Roof Guard CP and QC systems to various substrates such as dry old: concrete, masonry, bitumen roofing and asphalt.

- Polyurethane primer for re-coating old bituminous layers
- Minimises adhesion failure
- Strengthens & seals ready for application of Delta Roof Guard CP or QC
- Compatible with a wide range of substrates

DMS 803	4kg



DELTA ROOF GUARD CONCRETE PRIMER

A two-part water based epoxy primer (humidity primer) is a highly effective penetrative resin, which provides a sound, solid base prior to the application of Delta Roof Guard QC or Roof Guard CP. Delta Roof Guard Concrete Primer will improve adhesion to damp: wood and concrete substrates.

- Broof(t4)
- Improve adhesions to damp: wood and concrete substrates
- Effectively blocks residual moisture flow and prevent blistering of the polyurethane coating applied on top
- 2-component, water-based epoxy resin

DMS 802	5kg



DELTA ROOF GUARD METAL PRIMER / ACTIVATOR

A single component polyurethane resin primer for improving the adhesion of Delta Roof Guard Primers, CP and QC systems to various substrates such as metal, single ply PVC, EDPM and GRP surfaces.

- Broof(t4)
- Flexible coating
- Excellent adhesion for difficult substrates
- Strengthens and seals ready for application of Delta Roof Guard CP or QC

DMS 804	4kg

ROOF GUARD BROOF(t4)



DELTA ROOF GUARD COLODUR

A high performance one-component aliphatic isocyanate-based polyurethane resin, that cures upon reaction with atmospheric moisture, giving a hard and flexible coatings with good abrasion, scratch and weather resistance. Colodur is an excellent surface protection for use over Delta Roof Guard membranes.

- Broof(t4)
- Gives protective UV topcoat to Delta Roof Guard CP & QC
- Pigmented colodur does not yellow on exposure to sunlight
- Scratch and weather resistance

DMS 813	**4kg**



DELTA ROOF GUARD FIBRE REINFORCEMENT

Delta Roof Guard Glass Fibre Reinforcement is used to reinforce the Base Coat of the Delta Roof Guard Systems. Delta Roof Guard Glass Fibre Reinforcement improves the mechanical properties of the cured waterproofing membrane. The Glass has a weight of 150gms per sqm with a roll size of 1 x 150m (150sqm per roll) and 0.3m x 100m (30sqm per roll).

- Broof (t4)
- Green Roof Approved
- Compatible with a wide range of substrates
- Suitable for new construction & repair on existing structures

DMS 810	**1m x 100m**
DMS 809	**0.3m x 100m**



DELTA ROOF GUARD SOLVENT PU

Can require under certain conditions, a faster curing process because of job constraints or low temperature or air humidity.

- Broof(t4)
- Viscosity adjustment
- Tool cleaning solvent
- Compatible with Roof Guard Range

DMS 807	**1.5kg**

COVERAGE RATES AND MEASUREMENTS

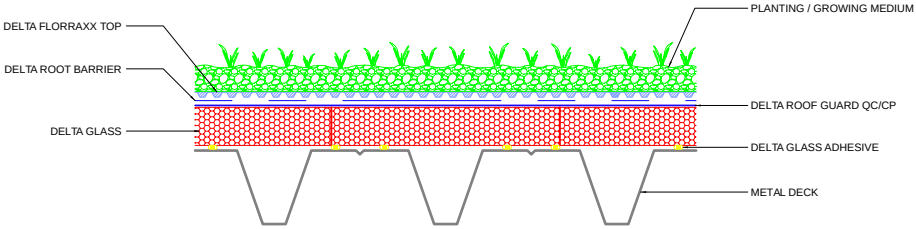
PRODUCT	FEATURES/BENEFITS
PRIMER	
Concrete Primer 5kg	Waterproofing works that involve the use of polyurethanes. • Restoration of terrace, decks, etc • Floorings which are exposed to humidity • Damp surfaces
General Primer 4kg	Primer for surfaces subject to movement that need to be renewed. • Wet/damp dry surfaces
Metal Primer 4kg	Better adhesion on difficult non porous smooth dry surfaces.
LIQUID MEMBRANES	
Delta Roof Guard QC 25kg	For application at low temperatures.
Delta Roof Guard CP inc Super Accelerant 26.5kg	Waterproofing of concrete structures, roofing, terraces, etc.
REINFORCEMENT FABRIC	
Reinforcement Fabric 0.3m x 100m	Reinforced application of liquid membranes in details and critical points.
Reinforcement Fabric 1m x 100m	Reinforced application of liquid membranes in details and critical points.

All information is provided as an estimate. For site-specific assistance, please contact Delta's Technical Team at info@deltamembranes.com or call 01992 523 523.

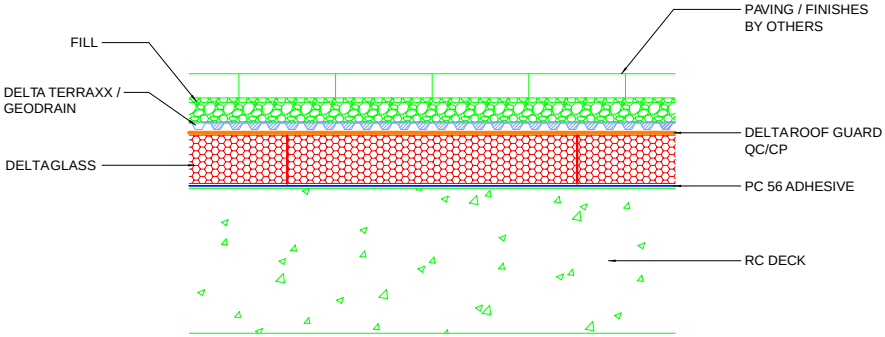
COVERAGE	APPLICATION	CONSUMPTION
Approx 20 m^2	Brush or Roller	between 200 to 300g/m^2 of unthinned product
Approx 20 m^2	Brush or Roller	100 a 300g/m^2 per hand
5 m^2	Roller, Brush or Spray but best when brushed.	50-100g/m^2
25 m^2 Single Coat	2 Coats Brush or Roller applied	Two layers of 1kg/m^2 each
13 m^2	Single Application 2 Coats Wet on Wet	2kg/m^2 in one layer (on horizontal surfaces)
30 m^2	N/A	N/A
100 m^2	N/A	N/A

GREEN ROOF: STEEL RIBBED DECK & DELTA GLASS

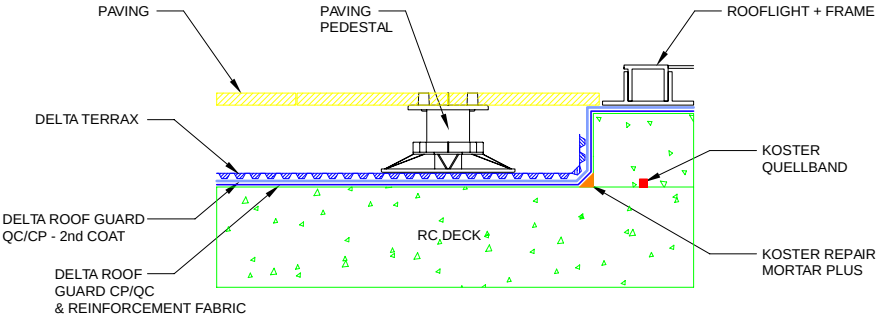
Technical Drawings



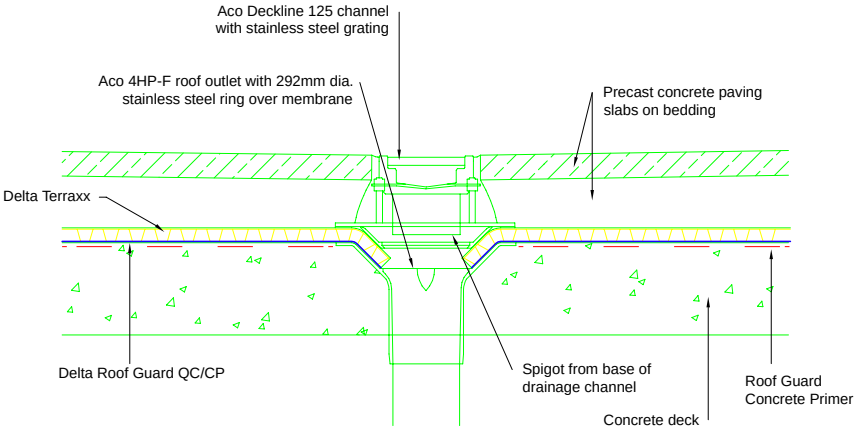
PAVED DECK - RC DECK & DELTA GLASS



ROOF LIGHT / PEDESTAL DECK



ROOF OUTLET DETAIL



Experience the power of Delta Roof Guard, a revolutionary cold liquid applied waterproofing solution that ensures a seamless, solid waterproof covering for entire roof areas. Whether it's a new project, an extension, or the refurbishment of an existing leaky roof, Roof Guard is your ready-to-use, cold applied answer.

Why? It offers exceptional adhesion to both porous and non-porous substrates, guaranteeing a leak-free future for your property.

Say goodbye to the use of hazardous torches, burners, or other heating equipment, and embrace a risk-free application process. Adopt cold applied waterproofing today - it's a smarter choice.

Features and benefits

- Broof(t4) and BBA Approved
- Easy to apply, even on difficult substrates
- Cold applied - avoiding inherent risks associated with hot works
- Exceptionally fast curing
- Completely seamless waterproofing - no joints or fixings
- Green Roof approved
- Guaranteed leak-free solution
- Fire and chemical resistant



www.deltamembranes.com | info@deltamembranes.com

Delta Roof Guard

Choose Delta Guard, cold liquid applied waterproofing for an efficient, reliable, and cost-effective solution to your project.



Discover peace of mind today

Call 01992 523 523 or
email info@deltamembranes.com for details

DELTA MEMBRANES



5

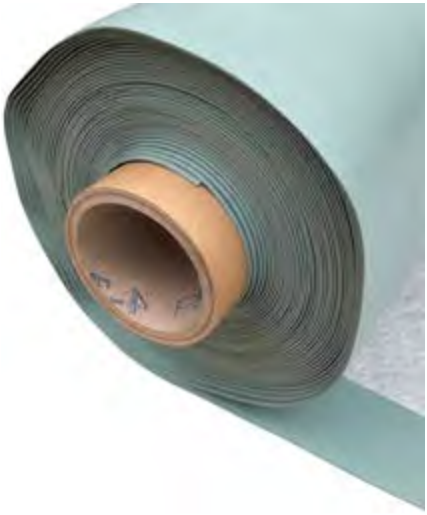
Pre & Post-Applied Membranes

Type A Waterproofing Systems are barrier membranes which are applied directly to the building/structure.

Type A membranes can be applied to both the positive (outside) and negative (inside) side(s) of a structure to prevent water ingress.

PRE-APPLIED MEMBRANE PRODUCTS

Pre-Applied waterproofing membranes are a unique system which can easily be applied on blinding concrete for the base slab and to prepared vertical excavation walls (e.g. piled walls, diaphragm walls or similar). Pre-Applied membranes can also be applied directly onto outer interior sides of double-faced formwork in open-cut excavation. Pre-Applied membranes bond to concrete to prevent the ingress or migration of water around a structure. Pre-Applied membranes can be used to waterproof all types of reinforced concrete basements and other below ground structures.



DUALPROOF

DualProof is a fully and permanently bonded, Pre-Applied membrane. It is applied before the steel reinforcement is fixed and the concrete poured. It consists of a sealed two layer highly flexible PVC membrane laminated with a non-woven PP-fleece. DualProof can be installed without heat or open-flame, over-lapped and sealed with butyl tape and special adhesive for detailing. The new PP FiberTex Technology gives the DualProof its unique bond and connection to the concrete. The PP-Fleece integrates into the concrete when poured giving a strong mechanical bond once cured.

DMS 480	**1.08m x 20m**

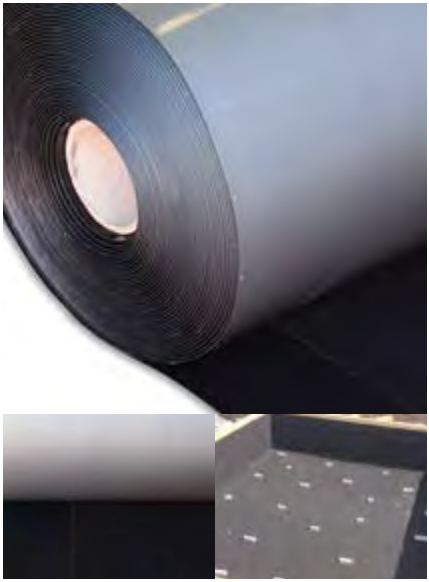


CEM 805 ADHESIVE

CEM 805 Adhesive is used to permanently seal joints between DualProof membranes. CEM 805 Adhesive can also be used to effectively seal the inside of service penetrations in basements against water ingress and is hydrophilic. Resistant to weathering and reacts with atmospheric moisture to form and elastic seal. Compatible with paints. Excellent chemical resistance for green roof application.

DMS 416	**600ml**

PRE-APPLIED MEMBRANES



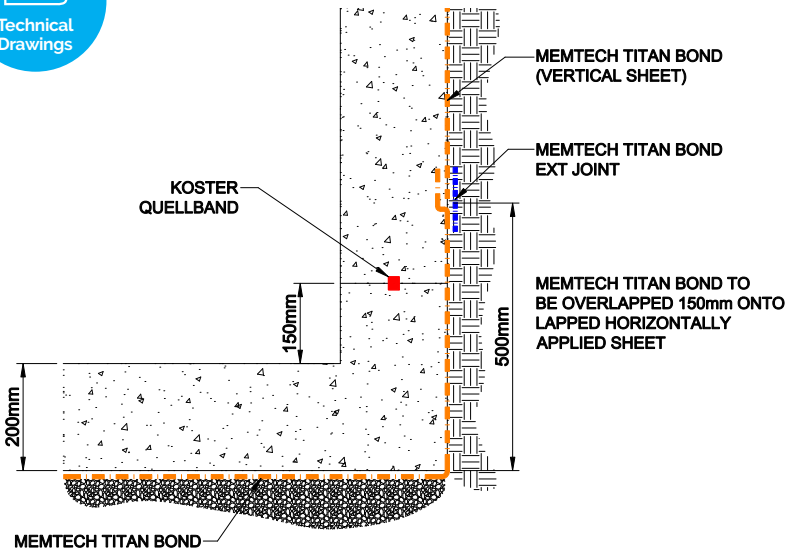
PRO TITAN BOND

Pro Titan Bond hydrocarbon barrier offers a safe solution for the protection of occupiers against all levels of Hydrocarbon, Methane, Carbon Dioxide and Radon gas ingress. Complies with the latest codes of practice as published by BRE, CIRIA (748) and BS 8485:2015+A1:2019 and BS 8102:2022.

- Suitable for use as ground gas/hydrocarbon protection for NHBC Green, Amber1, Amber2 and Red sites
- Ground Gas protection and waterproofing in one product
- Bonds fully with concrete

DMS 437	1.9m x 25m

Technical Drawings



POST-APPLIED MEMBRANE PRODUCTS



PRO TITAN TANK

Pro Titan Tank is a Post-Applied waterproof and ground gas membrane offering a safe solution for the protection of buildings, structures, and occupiers against all levels of Hydrocarbon, VOCs, Methane, Carbon Dioxide and Radon gas ingress.

- Suitable for new build basements, tunnels, and concrete structures below ground
- Exceptional chemical resistance
- High resistance to puncturing
- Can be used for providing damp proofing, gas proofing or waterproofing

DMS 438	**0.9m x 20m**



KOSTER KSK SY 15

Cold applied self-adhesive rubber/bitumen waterproofing membrane. Suitable for application from + 5 °C. KSK SY 15 is highly flexible, immediately waterproof, crack bridging and resistant to driving rain. Radon proof. KSK SY 15 is highly ductile and can be applied to difficult structures with ease.

- Suitable for Horizontal and vertical waterproofing
- Highly flexible due to the rubber-bitumen
- Crack-bridging
- Self-sealing in case of minor damage

DMS 245	**1.05m x 20m**

Delta Amphibia is self-repairing, self-sealing, and self-bonding to concrete, offering triple active protection for unbeatable waterproofing.

Delta Amphibia is a unique fully bonded Type A waterproofing membrane, utilising its advanced Reactive Core technology, Delta Amphibia will not only Self-Repair in the event of accidental puncture and Self-Heal, but will also Self-Seal.

When you choose Delta Amphibia, you're choosing the paramount waterproofing system that guarantees absolute water-tightness.

With its long-term efficiency, Delta Amphibia is not just a choice, but the best decision for your waterproofing needs.

Trust Delta Amphibia, trust excellence.

Features and benefits

- **Self-Repairing, Self-Sealing, Self-Healing, Self-Fastening**
- **High flexibility and capacity to bridge cracks**
- **Active protection for watertight waterproofing**
- **High resistance to hydraulic load**
- **Vertical or horizontal application**
- **Full mechanical bond to concrete**
- **Made up of 4 unique layers**
- **Extremely flexible – Resistant to movement and fissures in substrates**
- **Reactive core technology**
- **Absolute impermeability with no side seepage of water**



Delta Membranes

Delta Amphibia

Ensure the ultimate safety of your underground structures with Delta Amphibia, the revolutionary reactive-core waterproof membrane that springs to action upon water contact.



Discover peace of mind today

Call 01992 523 523 or
email info@deltamembranes.com for details

PRE APPLIED MEMBRANE PRODUCTS



DELTA AMPHIBIA 1.3MM

Delta Amphibia 1.3mm Pre-Applied membrane is a co-extruded multilayer waterproofing membrane. This robust, tough but flexible waterproofing membrane is ideal for all construction applications. Delta Amphibia is an EPDM waterproof membrane that is: reactive when in contact with water, self-repairing self-sealing and self-fastening to concrete.

Delta Amphibia offers differentiated function for total water tightness of underground structures against water seepage. Moreover, it is provided with a calibrated non-woven fabric on the inner face/side in contact with fresh concrete which allows the mechanical adhesion of the membrane to the structure.

DMS 1035	0.9m x 10m
DMS 1036	1.8m x 20m



DELTA WT CONSTRUCTION

Delta Amphibia WT Construction is a hydro-expansive waterstop with a centralised reinforced steel mesh, designed to prevent water from leaking from or into concrete structures through construction joints.

DMS 1043	20mm x 10mm
DMS 1044	25mm x 15mm



DELTA WT EXPANSION

Delta Amphibia WT Expansion is a hydro-expansive waterstop used to seal contraction and expansion joint(s) including deteriorated, in any reinforced concrete structures. Delta Amphibia WT Expansion has a high resistance to hydraulic loads, creating the optimal sealing of expansion and contraction joints.

DMS 1045	20mm x 20mm
DMS 1046	30mm x 30mm



DELTA WT PANEL

Delta Amphibia WT Panel is a hydro-expansive EPDM-based waterstop designed to prevent water from leaking from or into concrete structures by swelling when in contact with water and creating an impenetrable barrier.

DMS 1047	1200mm x 250mm

DELTA AMPHIBIA ANCILLARIES



DELTA AMPHIBIA PRESSURE LINE

Steel straight profile coated on one side with Delta Amphibia membrane.
1500mm x 50mm

DMS 1037	1.5m Length



DELTA AMPHIBIA PRESSURE CORNER 90°

Steel corner profile coated on one side with Delta Amphibia membrane.
Length 1500mm
Height 50mm x 100mm

DMS 1038	1.5m Length



DELTA AMPHIBIA PRESSURE CORNER 270°

Steel corner profile coated on one side with Delta Amphibia membrane.
Length 1500mm
Height 50mm x 100mm

DMS1039	1.5m Length



DELTA AMPHIBIA SAFETY TAPE

One-sided sealing tape typically used for connecting and sealing Delta Amphibia membranes together where they join or overlap.

DMS 1002	60mm x 25m



DELTA AMPHIBIA LAP SEAL

Butyl adhesive tape for overlapping joints.

Roll Size = 10m

DMS 1041	10m roll



DELTA AMPHIBIA STOPPER

Protective stopper to close formwork holes.

DMS 1042	Bag 50 Pcs



DELTA AMPHIBIA BI MASTIC

High performance deformable adhesive mastic.
600 cc/ml unipack and nozzle (per unit).

DMS 1028	10 unipack box

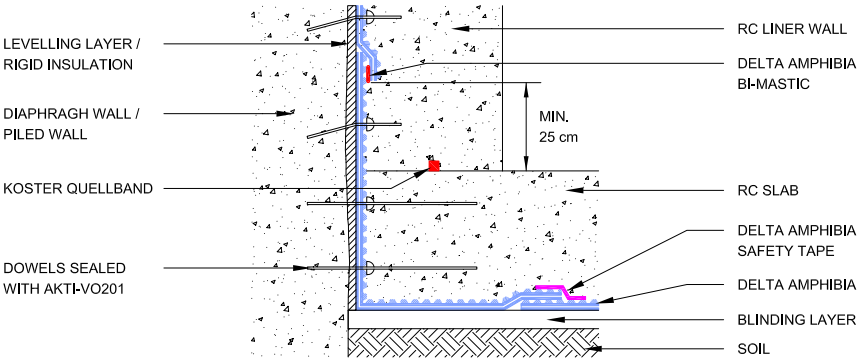


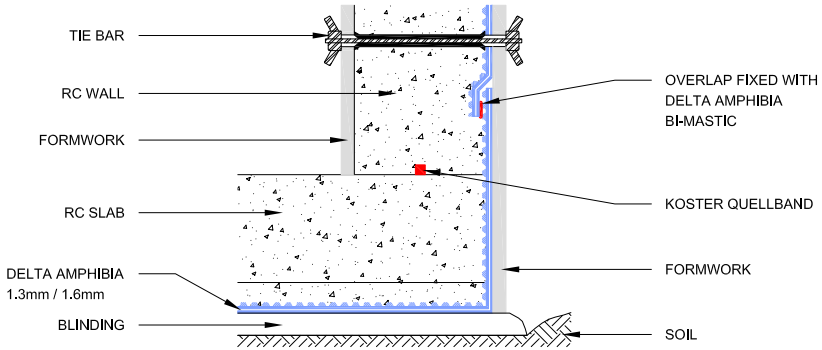
AMPHIBIA AKTI-VO 201

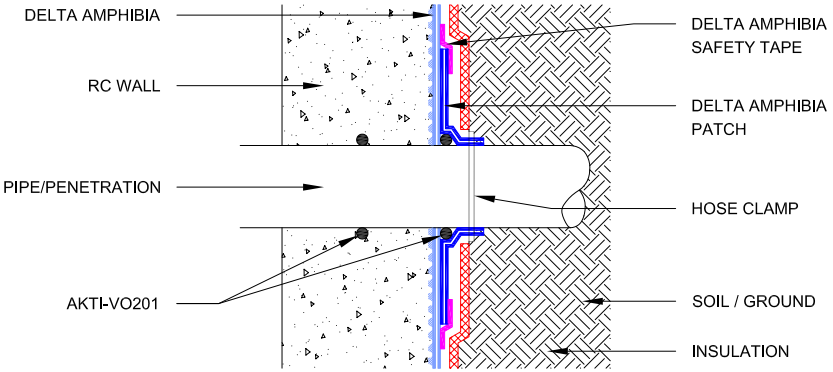
High performing hydro-expansive mastic for sealing through-elements of Delta Amphibia membranes and sealing and waterproofing passing bodies and general cracks in concrete.
320cc/ml (per unit).

DMS 1004	6 unipack box

Technical Drawings









DELTA AMPHIBIA INSTALLATION



DELTA DUALPROOF INSTALLATION



DELTA DUALPROOF POST CONCRETE POUR



PRE CONCRETE POUR



RESIDENTIAL STRUCTURE



COMMERCIAL STRUCTURE

PRE-POST APPLIED



SITE PREPARATION



DELTA AMPHIBIA INSTALLATION



6

KOSTER

Koster Bauchemie AG specialises in high quality structural waterproofing products and systems. Their extensive experience around the world has enabled them to constantly develop new ideas in order to provide the most innovative solutions to the construction industry.

Koster systems and products stand out due to their exceptionally easy and user-friendly application.

WATERPROOFING



KOSTER MS FLEX FOIL

Koster MS Flex Foil is an eco-friendly, premium single component, liquid applied, elastic, crack bridging waterproofing material, based on MS Polymer technology. It is characterized by excellent adhesion to a wide variety of building materials and can be applied on dry or slightly moist substrates.

DMS 228	8kg
DMS 294	25kg



KOSTER 21

Koster 21 is a 2 component, solvent free, liquid applied, elastic and crack bridging, multi-purpose waterproofing product with excellent adhesion to dry and moist substrates. Liquid applied and seamless. UV stable, suitable for indoor and outdoor use.

DMS 244	20kg



KOSTER KD 1 BASE

Fast setting, mineral sealing slurry with high resistance against aggressive ground moisture and pressurized water. Can be used in combination with KD 2 Blitz Powder and KD 3 Sealer.

DMS 199	15kg



KOSTER KD 2 BLITZ POWDER

Highly reactive powder with an extremely short setting time. Active leakages can be stopped within a few seconds simply by using the dry powder. Can be used in combination with KD 1 Base and KD 3 Sealer.

DMS 185	15kg

WATERPROOFING



KOSTER KD 3 SEALER

A low viscosity silicifying liquid. The active ingredients penetrate deeply into the substrate and form water insoluble compounds. The pores are plugged and permanently waterproofed through continuing crystallisation. Used in combination with KD 1 Base and KD 2 Blitz Powder.

DMS 200	6kg



KOSTER KD SYSTEM PACK

System package for the negative side waterproofing of mineral surfaces against pressurized water such as in internal basement waterproofing. The KD System stops flowing water and forms a permanent waterproofing layer on masonry and concrete.

DMS 293	4m² coverage



KOSTER NB 1 GREY

NB 1 is a crystallizing mineral waterproofing slurry system for sealing against pressurized water (>13 bar). Suitable for positive side and negative side waterproofing.

DMS 178	25kg



KOSTER NB ELASTIC GREY

Koster NB Elastic Grey is a 2-component system, bridges cracks up to 2 mm and is resistant to pressurized water. It is suitable for the waterproofing of balconies, terraces, and crack bridging waterproofing of concrete elements.

DMS 372	33kg

WATERPROOFING



KOSTER NB 4000

NB 4000 is elastic and crack bridging and suitable for waterproofing external basements, masonry, and the repair of defective waterproofing layers. Cures reliable and quickly in difficult ambient conditions (applied from +2°C upwards).

DMS 167	**25kg**



KOSTER NB 4000 SPRAY ADDITIVE

Koster NB 4000 Spray Additive enhances the working properties and application of Koster NB 4000. It extends working time, prevents rapid skin formation in summer, and improves hose and pump cleaning.

DMS 462	**250g**



KOSTER DEUXAN 2C

Robust, two-component, elastic, polymer modified, fibrated bitumen thick film sealant (PMBC) for the secure waterproofing of buildings in accordance with DIN 18533. Suited for the intermediate waterproofing/external coating.

DMS 169	**32kg**



KOSTER REPAIR MORTAR PLUS

Koster Repair Mortar Plus is a watertight, fast setting, slightly expanding repair mortar with excellent adhesion even to old building material substrates. With the addition of Koster SB Bonding Emulsion, it can be used as a PCC (polymer modified cement concrete) mortar.

DMS 171	**25kg**

WATERPROOFING



KOSTER REPAIR MORTAR PLUS NC

Koster Repair Mortar NC is a repair mortar and plaster with excellent workability. It has a high adhesion to old and new mineral building material substrates. Repair Mortar NC is characterised by high chemical and mechanical resistance and Compressive Strength. It is fiber reinforced, ideally suited as substrate preparation for corrosion protection.

DMS 284	25kg



KOSTER WATERSTOP

A fast curing, expanding plug and repair mortar. Can be used to seal water leakages in concrete, masonry and natural stone structures quickly. Can be used to form fillets which are subject to pressurised water to seal slotted walls, manholes, cable and pipe penetrations and to seal damaged pipe joints.

DMS 172	15kg



KOSTER SB BONDING EMULSION

Multi-purpose liquid plasticizing dispersion for use with all cement based mortars, plasters and sealing slurries. Solvent free, plasticizer and filler free. Provides a plastifying effect, increases the elasticity and reduces the water absorption of mineral systems.

DMS 173	5 ltrs



KOSTER KSK SY 15

Cold applied self-adhesive rubber/bitumen waterproofing membrane. Suitable for application from + 5 °C. KSK SY 15 is highly flexible, immediately waterproof, crack bridging and resistant to driving rain. Radon proof. KSK SY 15 is highly ductile and can be applied to difficult structures with ease.

DMS 245	1.05m x 20m



KOSTER BITUMEN PRIMER

Koster Bitumen Primer is a cold applied, low odour, solvent containing bitumen primer. Displaying excellent penetration properties. It acts as a dust-binder and as a bonding agent for subsequent hot or cold applied liquid bitumen coatings and self-adhesive membranes.

DMS 037	10 ltrs



KOSTER GLASS FIBRE MESH

Koster Glass Fiber Mesh is a reinforcing fabric for reinforcing coatings e.g., made of Koster KBE Liquid Film, Koster NB 4000, Koster 21 and Koster Deuxan 2C. The application of Koster Glass Fiber Mesh is predominantly necessary on areas which are exposed to pressurized water, and which are in danger of cracking as well as on connections, transitions and fillets.

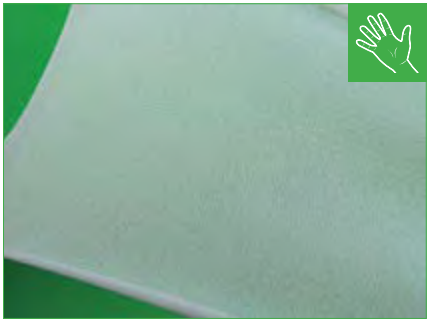
DMS 174	33cm x 100m
DMS 188	1m x 100m



KOSTER BE RAINPROOF

Koster BE Rainproof protects fresh bitumen coatings against rain. BE Rainproof is a liquid accelerator which forms a water-resistant film on all fresh bitumen emulsions. Koster BE Rainproof must only be applied to the finished waterproofing – it may not be applied to intermediate layers.

DMS 223	5kg



KOSTER FLEX FABRIC

Koster Flex Fabric is a highly flexible, finely woven plastic fabric reinforcing mesh with very high tear resistance. Koster Flex Fabric is mainly applied in areas which are in danger of cracking as well as on feed through, connections, and transitions.

DMS 347	1m x 50m

Koster Mortar Tight enhances mortar density and promotes self-healing of micro-cracks through crystallization. Koster Mortar Tight boosts impermeability of mortars and slurries against moisture, dampness, hydrostatic pressure, and driving rain. Plus, it's free from chlorides and nitrates. Make your structures resilient with Koster Mortar Tight!

Ideal solutions for any structure

Upgrade your negative side render system! It's waterproof, self-healing, and perfect for joint tapes or traditional fillets. Apply it at any thickness and mix with gauging water for easy application. Loved by the Delta Community, this render offers unbeatable benefits over traditional options. **Try it now and see the difference.**

Features

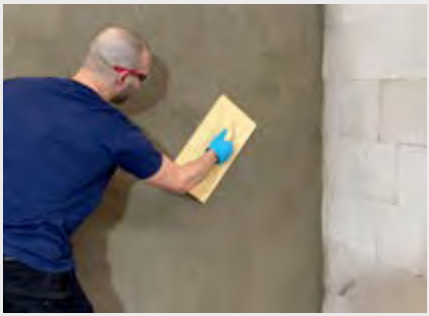
- Waterproof liquid additive
- Positive and negative side waterproofing
- Free of chlorides and nitrates
- Substrate does not have to be continually kept wet to cure
- Inhibits salt movement in the substrate when used as a system together with Koster Polysil TG 500
- Easy application
- Seamless application
- Suitable for new construction and repair on existing structures
- Horizontal and vertical application

Applications

- Basement
- Retaining Walls
- Lift Pits
- Tunnels
- Swimming Pools
- Below ground structures

Working in 3 ways to provide optimal performance:

- Mortar Tight improves the density of the mortar
- Mortar Tight makes the mortar water repellent (hydrophobic)
- Mortar Tight promotes self-healing of cracks and capillaries through crystallisation



Koster Mortar Tight

Your ultimate solution for waterproofing. A liquid additive preventing the transmission of water through renders, screeds, and/or sealing slurries.



Discover peace of mind today

Call 01992 523 523 or
email info@deltamembranes.com for details

DELTA MEMBRANES

WATERPROOFING



KOSTER MORTAR TIGHT

Koster Mortar Tight is a waterproofing liquid additive which prevents the transmission of water through renders, screeds, and/or sealing slurries. This versatile product improves the density of the mortar structure, making the mortar water repellent (hydrophobic), furthermore, Koster Mortar Tight promotes self-healing of micro-cracks through crystallization.

DMS 1181	10 Lts



KOSTER SUPERFLEECE (REINFORCING FABRIC)

Koster Superfleece is a distinctive non-woven, high strength polyester, reinforcing fabric for liquid waterproofing products. Koster Superfleece cures after absorbing liquid waterproofing products (Koster MS Flex Foil, Koster NB Elastic, Koster Deuxan, Koster Bikuthan, Koster Dachflex, Koster KBE, and Koster BD 50), creating an incredibly high tear strength of 20 N.

DMS 360	50m roll



KOSTER KBE LIQUID FILM

Solvent-free, highly elastic bitumen/rubber-based sealing compound. For high quality external waterproofing of construction members in ground contact. Also suitable for waterproofing under protective screed, crack bridging waterproofing of concrete floors, flat roofs and much more.

DMS 251	6kg
DMS 203	24kg

RESIN INJECTION



1C INJECTION PUMP

KOSTER 2 IN 1

Koster 2 IN 1 is a water reactive elastic PU-injection resin for single and two stage injection of dry and water bearing cracks and joints. Koster 2 IN 1 stops active leaks and seals cracks and construction joints permanently and elastically.

DMS 346	20kg
DMS 382	5kg



1C INJECTION PUMP

KOSTER KB-POX IN

Solvent free, 2 component low viscous epoxy injection resin for crack injection. Koster KB-Pox IN permanently seals and bridges cracks, as well as joints and restores structural integrity. Without pre-injection Koster KB-Pox IN can be used for filling and closing dry, damp and wet cracks, joints and voids.

DMS 383	1kg
DMS 252	6kg



1C INJECTION PUMP

KOSTER IN 5

Koster IN 5 is a two-component elastic PU injection resin, specially suitable for hose injection. For permanently and elastically sealing dry, moist and water bearing cracks and joints in concrete. Solvent free, low viscosity for permanently and elastically injecting, filling and sealing cracks, construction joints and corrosion protection.

DMS 264	10kg

RESIN INJECTION

1C INJECTION PUMP



KOSTER IN 8

Koster IN 8 is a unique water reacting polyurethane prepolymer (Resin Injection). When in contact with water, Koster IN 8 spontaneously forms a robust, elastic, and waterproof polyurethane foam.
Contact with water is essential for Koster IN 8's curing and foaming processes. Once the reaction is complete, Koster IN 8 maintains its viscoelasticity, enabling it to track crack movements and provide long-term waterproofing without the need for an additional elastic solid polyurethane resin injection.

DMS 460	5kg

2C GEL PUMP



KOSTER PUR GEL

Water activated polyurethane gel for area injections as well as for waterproofing expansion and dilation joints. Koster PUR Gel reacts with water and can bind up to ten times its own weight in water. Oakum soaked in Koster PUR Gel can be an elegant method for solving difficult active water ingress problems in pipes, joints, and cavities.

DMS 323	2.5kg
DMS 384	25kg

ACRYLIC PUMP



KOSTER INJECTION GEL G4

Low viscosity acrylic gel for curtain injection and area injection of masonry. Water based, elastic gel with a very low starting viscosity after initial mixing. It is capable of binding water during gelation. The swelling ability after full curing allows a 40% uptake of additional water into the gel structure. Due to the low starting viscosity it can be injected into fine substrate pores. Drinking water certification.

DMS 385	21.4kg

RESIN INJECTION



ACRYLIC PUMP

KOSTER INJECTION GEL S4

Koster Injection Gel S4 is a low viscosity acrylic gel used for curtain injection and injecting into masonry and concrete. Setting time can be adjusted from 20 seconds to 3 minutes by varying the amount of the B component.

DMS 535	21.4kg Complete Kit
DMS 583	18kg +B Component



KOSTER IN 8 ACCELERATOR

Enhance the performance of Koster IN 8 with Koster IN 8 Accelerator. The amount to be added is max. 10 % by weight to reduce reaction time by up to one minute. The mixed material remains viscoplastic post-reaction, enabling it to adapt to crack movements and achieve a permanent seal without requiring solid resin re-injection.

DMS 461	500g Bottle



GROUT PUMP

KOSTER MICRO GROUT 1C

Injection grout for the restoration of structural strength in cracks or voids in masonry and concrete. Koster Micro Grout 1C possesses a high Compressive Strength, is shrink free, and does not show sedimentation during its pot life. Fields of application include crack injection also in overhead areas, filling of voids, as well as the grouting of masonry anchors.

DMS 569	24kg



KOSTER PUR CLEANER

A reliable, high quality cleaning agent for unreacted polyurethane resins. Koster PUR Cleaner facilitates the cleaning of unreacted polyurethane. Fully cured polyurethane residues require mechanical removal.

DMS 241	10 ltrs

Koster IN 8 transforms into a resilient, elastic, and waterproof foam upon contact with water. It remains flexible to adapt to crack movements, ensuring long-lasting waterproofing without the need for re-injection.

Ideal solutions for any structure
Koster IN 8 effectively addresses and repairs active leaks with advanced foaming action. It waterproofs both horizontal and vertical cracks, ensuring durability and longevity, filling cavities and voids in masonry and concrete, reinforcing structural integrity.

Create a flexible bond that adapts with your structure, offering optimal protection and resilience. Invest in Koster IN 8 for comprehensive active leak repair solutions.

Features

- Pressure injection process for waterproofing cracks in concrete and masonry
- Water-reactive polyurethane pre-polymer
- Reacts upon contact with water
- Spontaneously forms a durable, tough-elastic, and waterproof polyurethane foam
- Single component
- Solid-body resin can track crack movements and provide permanent waterproofing without the need for post-injection
- 30-fold increase in volume
- Resistant to hydrolysis

Koster IN 8 works for both single and multi-stage cracks. This method ensures durability and doesn't need a solid resin post-injection. It's great for water-bearing cracks, keeping them sealed and strong.

Advantages

- The fast foaming – effectively stopping water in seconds
- High expansion volume, up to 60 times
- Long pot life
- Resistant to hydrolysis and acid
- Remains viscoelastic
- Able to follow crack movements
- Injectable on moist and water-bearing cracks
- Free of solvents and filler



Koster IN 8

Discover the power of Koster IN 8 - Efficiently sealing leaks as soon as they appear, ensuring minimal disruption and maximum efficiency.



Discover peace of mind today

Call 01992 523 523 or
email info@deltamembranes.com for details

DELTA MEMBRANES

JOINT SEALING



KOSTER KB-POX ADHESIVE

Koster KB-Pox Adhesive is a high performance, 2 component, epoxy based, adhesive specially designed for fastening Koster Joint Tapes to mineral, wooden and metal substrates. Koster KB-Pox Adhesive develops a high adhesive early strength to concrete, mortar, metal, wood and many other building materials. Vertical and overhead application is possible.

DMS 267	5kg



KOSTER FS PRIMER 2C

Koster FS Primer 2C is a fast curing, transparent, solvent free two component bonding agent. It is used as a primer for the subsequent application of Koster Joint Sealant FS-H and FS-V.

DMS 361	200g Combi Package



KOSTER JOINT SEALANT FS-V

Koster Joint Sealant FS-V is a flexible stiff/creamy polysulphide joint sealant. When fully cured, is a rubbery elastic sealant with a high mechanical load capacity, good resistance to water, sea water, salt solutions, benzenes, and mineral oils; it is root resistant, does not rot and it has very good retraction capabilities.

DMS 362	Black	4kg Combi Package
DMS 577	Grey	4kg Combi Package



KOSTER JOINT SEALANT FS-H

Self levelling joint sealant with excellent resistance against mechanical stresses and a high resistance against water, sea water, salt solutions, petroleum and mineral oils. It is rot and root resistant. Fields of application include permanently elastic waterproofing of horizontal joints in below grade construction.

DMS 363	Black	4kg Combi Package
DMS 578	Grey	4kg Combi Package

JOINT SEALING



KOSTER MS SEALANT

Koster MS Joint Sealant is a high-performance waterproofing solution. This highly elastic MS polymer-based waterproofing material with excellent elasticity, is characterised by high UV and weather resistance and excellent adhesion to various interior and exterior building materials. Koster MS Joint Sealant exhibits superior characteristics, being fast-curing and highly elastic. This one-component product is UV-resistant, ensuring durability even under extreme application conditions.

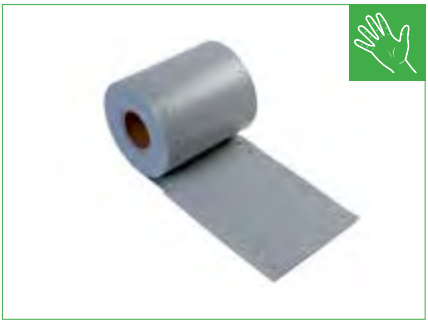
DMS 1182	**600ml**



KOSTER QUELLBAND

5m Sodium-bentonite based swellable waterstop. With an alkalinity activated surface coating which stops premature swelling of the waterstop during the construction process.

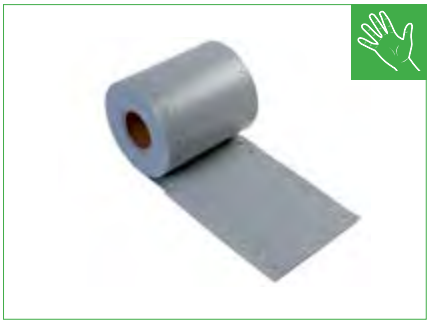
DMS 296	**Box of 6**



KOSTER JOINT TAPE 20

Thermoplastic tape for sealing expansion and dilatation joints (up to 12cm) and broad, irregular cracks. Koster Joint Tape 20 is UV resistant, highly elastic and can withstand extreme movements in the joint. Suitable for use with Koster KB-Pox Adhesive, for fastening the joint tape to mineral substrates.

DMS 367	**20cm x 20m**



KOSTER JOINT TAPE 30

Koster Joint Tape 30 is UV resistant, highly elastic, thermoplastic tape for sealing expansion and dilatation joints (up to 20cm) and broad, irregular cracks. Suitable for use with KB-Pox Adhesive, for fastening the joint tape to mineral substrates.

SPECIAL ORDER	**30cm x 20m**

JOINT SEALING

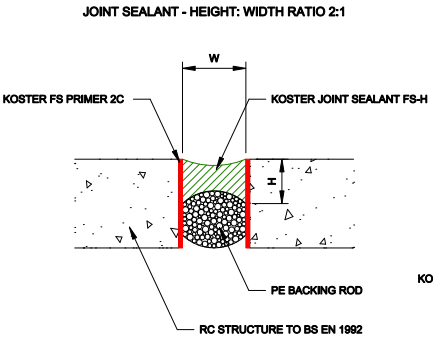


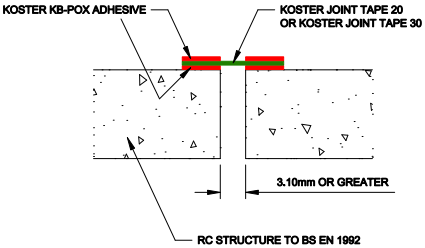
KOSTER KB-FLEX 200

Koster KB-Flex 200 is a 1-component, permanently plastic material that can be directly applied from the cartridge – even in the case of flowing water. Koster KB-Flex 200 is a permanent plastic sealing compound ideal for sealing pipe and cable penetrations, cavities and for custom detail waterproofing solutions against moisture and pressurized water.

DMS 407	530ml

EXPANSION / MOVEMENT JOINT DETAILING





SELF LEVELLING



KOSTER VAP | 06

Koster VAP I 06 Primer is a unique, water based, single component material for priming absorbent and non-absorbent substrates. For use as a primer for Koster VAP 2000 prior to installation of floor screeds and underlayments such as Koster SL Premium and SL Protect.

DMS 499	19.5kg



KOSTER SL PRIMER

Koster SL Primer is a transparent, low viscosity butadiene-styrene primer with a slightly tacky surface. It reduces the absorbency of mineral surfaces like concrete and screed, ensuring uniform absorption rates. By minimising bubbling effects when using Koster self-levelling floor products, Koster SL Primer enhances application quality. It is free from solvents, plasticizers, and fillers, and its water-resistant properties ensure it remains effective even after exposure to rain or washing.

DMS 484	5kg



KOSTER SL PROTECT

Koster SL Protect is a mineral based self-levelling underlayment with high resistance to chemical and mechanical stresses. It is an early loadable, directly useable levelling layer over uneven or coarse concrete and cementitious screeds. Due to its high chemical resistance, it is used to protect against light and medium corrosion and serves as a slowly reacting sacrificial layer in areas of high chemical stress.

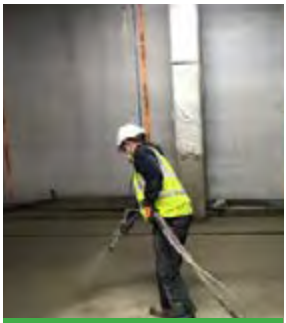
DMS 571	25kg



KOSTER SL PREMIUM

Koster SL Premium is a high quality, fast setting underlayment that hardens tension free and provides a smooth, level surface ready to receive subsequent flooring systems. It hardens within hours to a smooth, strong, and multifunctional levelling layer. It may be applied onto a variety of substrates.

DMS 187	25kg



NB1 SPRAY APPLICATION



DEUXAN 2C



NB4000 - COLD APPLICATION



DEUXAN 2C



NB1 SPRAY APPLICATION



RESIN INJECTION - LONDON UNDERGROUND

KOSTER



KD WATERSTOP



POLYSIL TG 500 - ANTI LIME INHIBITOR



DEUXAN 2C - TWIN WATERPROOFING



COMMERCIAL STRUCTURE



REMEDIAL WATERPROOFING



RESIDENTIAL STRUCTURE



HYBRID BLUE ROOF



PODIUM DECK

KOSTER FAÇADE



KOSTER FAÇADE CREAM

Koster Façade Cream is a high-grade façade impregnation for brick, natural stone and mineral renders. Due to its high resistance against alkalinity it is also suited for application to fresh mineral substrates. The creamy, stable consistency and the resulting application with brush or roller reduces the drip or spraying losses to a minimum. Koster Façade Cream protects buildings from driving and normal rain water; it is water vapour permeable, resistant to frost and de-icing salts.

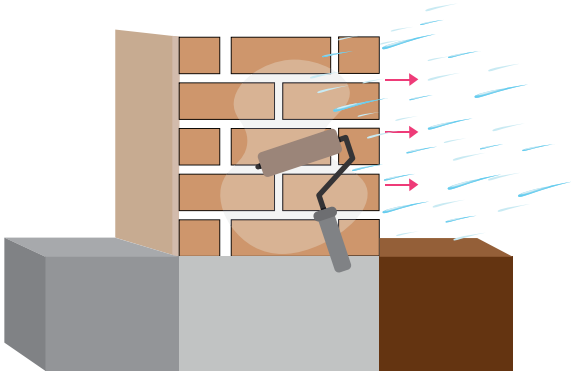
DMS 180	5 ltrs



KOSTER RENOVATION PAINT WHITE

Koster Renovation Paint White is a matt, water-soluble, capillary-hydrophobic façade paint formulated with silicon resins, special bonding enhancers, and a non-wetting surface effect. It dries to a smooth finish with high vapour permeability. The paint offers excellent water repellency, high CO2 and water vapour permeability, and superior weather resistance, including resistance to driving rain.

DMS 579	10kg



KOSTER FAÇADE

CONCRETE REPAIR & PROTECTION



KOSTER Z1

Koster Z1 is a polymer modified special slurry for the mineral corrosion protection of steel reinforcement.

DMS 378	1kg



KOSTER Z2

Koster Z2 is a polymer modified special slurry for the mineral corrosion protection of steel reinforcement. Koster Z2 is pigmented red to allow for visual control during application.

DMS 379	1kg



KOSTER BETOMOR MULTI A

Koster Betomor Multi A is a shrink free, waterproof, fast curing multi-purpose mortar for concrete restoration. Exceptionally low density for repairing and reprofiling concrete, screed surfaces and corrosion protection.

DMS 380	15kg



KOSTER KB-FIX 5

Waterproof, weatherproof, fast curing mortar with high Compressive Strength (sets after approx. 5 minutes) for fast installations as well as for small repairs of masonry and concrete. Free of soda and chlorides.

DMS 283	15kg

CONCRETE REPAIR & PROTECTION



KOSTER TURBO MORTAR M

Koster Turbo Mortar M is a fiber reinforced repair, concrete replacement, and re-profiling mortar with high chemical and mechanical resistance. Koster Turbo Mortar M can be mechanically stressed after 60 minutes. The consistency can be regulated for vertical or horizontal application.

DMS 221	**25kg**



KOSTER REPAIR MORTAR NC

Repair Mortar NC is characterized by its high chemical and mechanical resistance and Compressive Strength. Fiber reinforced. Suitable for large re-profiling and repair works, has excellent workability characteristics and adhesion to old and new mineral building substrates.

DMS 284	**25kg**



KOSTER SEWER & SHAFT

Water tight, fast curing and fast setting restoration mortar specially designed for sewers and shafts. Koster Sewer and Shaft Mortar develops a high Compressive Strength, is fiber reinforced, easy to apply and workable even under flowing water. Approved for drinking water applications.

DMS 381	**25kg**



KOSTER TURBO SUPER PLASTICIZER

Koster Turbo Super Plasticizer in an additive for the adjustment of the mortar consistency of the Koster Turbo System (M and NC) to suit individual requirements on construction sites.

DMS 224	**65g**



KOSTER BDM

Koster BDM combines three important characteristics – it crystallizes, blocks capillaries and makes the concrete water repellent. This reduces the water absorbency of the concrete, increases its Compressive Strength and resistance against chemical attack. It is free of corrosive ingredients and is non sensitive to mechanical damage to the surface.

DMS 576	**30kg**
DMS 568	**1000kg**

TECHNICAL DATA

Appearance	Milky
Density (20°C)	Approx 1.1g/cm^3
Viscosity	Approx. 100 – 200 mPa s
Minimum Working Temperature	+ 5°C
Consumption	2% (mass) of cement content

MASONRY



KOSTER POLYSIL TG 500

Koster Polysil TG 500 anti-lime is a low viscous, substrate solidifying, hydrophobizing combination product on a polymer/silicate basis for the protection of mineral substrates. This deeply penetrating primer for damp, salt-containing substrates and an anti-lime treatment for new concrete acting as a liquid hardener for sealing slurries.

DMS 170	10kg



KOSTER RESTORATION PLASTER KEY

Fast, coarse plaster key with polymer additives for the substrate preparation of Koster Restoration Plasters. Very good bonding on very moist and highly salt burdened substrates.

DMS 399	25kg



KOSTER CRISIN CREAM

Koster Crisin Cream is a retroactive DPC (Damp Proof Course) resistant to moisture and salt content. Applied from inside and/or from the outside of a structure. It can be applied in cases of high degrees of moisture penetration (95% +/- 5% saturation) and with all degrees of salt contamination.

DMS 570	600ml



KOSTER CRISIN 76 CONCENTRATE

Very low viscosity synthetic resin for waterproofing against rising damp (wicking moisture) even in case of high moisture and salt contents in the masonry. Koster Crisin 76 Concentrate displaces water from the capillaries. After full cure, Crisin 76 Concentrate remains elastic and does not rot. Resistant to all aggressive media (acids, alkalis and salts), during application as well as after full cure.

DMS 289	Concentrate 10 ltrs
DMS 290	Cartridge 200ml

MASONRY



KOSTER FINE PLASTER

Koster Fine Plaster is hydrophobic, water, weather, and frost resistant. A finely textured thin layer plaster for smooth decorative surfaces on Restoration Plasters and mineral based substrates. It can be applied in layer thickness's from 2 – 5 mm and is felt-floatable.

DMS 195	**25kg**



KOSTER RESTORATION PLASTER WHITE

Koster Restoration Plaster White is a salt and pressure resistant restoration plaster for the restoration of heavily moisture and salt burdened substrates. Due to its high porosity and hydrophobicity, Koster Restoration Plaster White allows for the damage free drying and de-salting of masonry even in the case of high salt contents.

DMS 197	**25kg**



KOSTER RESTORATION PLASTER GREY

Diffusion-open, salt-resistant restoration plaster. It can be applied manually or by machine. Very high porosity and hydrophobic properties. Prevents or reduces the formation of condensate. Free of light fillers. CE Certification according to DIN EN 998-1.

DMS 196	**25kg**



KOSTER UNIVERSAL CLEANER

Koster Universal Cleaner dissolves and removes soft and partially cured bituminous materials and epoxy resins. Not suitable for cleaning polyurethane based materials.

DMS 198	**10 ltrs**

MASONRY



KOSTER THERMAL PLASTER

Koster Thermal Restoration Plaster is a pure mineral insulating plaster with good thermal insulation properties that is free from plastics. Ideal for the repair of masonry damaged by moisture and salt, especially after the installation of horizontal barriers.

Koster Thermal Restoration Plaster is suitable for all moisture and salt levels in masonry. Koster Thermal Restoration Plaster can be used to improve the insulation value of masonry and prevents mould growth.

DMS 197	**25kg**

FEATURES AND BENEFITS

- Allows masonry to dry and desalinate without damage even at high salt levels
- Suitable for heavily moisture and salt-contaminated substrates
- Offers a reduction of condensation levels/ improves the indoor climate
- High thermal efficiency, and is hydrophobic
- Salt encapsulating
- Lightweight
- Can be applied at a layer thickness up to 5cm (50mm)
- Easy application
- Seamless application
- Suitable for new construction and repair on existing structures
- Free of Plastics
- Pollutant-free restoration of existing masonry
- Ecologically sustainable (50% high-quality recycled raw material)

WET ROOMS



KOSTER BD 50 PRIMER

Penetrates deeply into the substrate creating an excellent bonding bridge for the subsequent waterproofing.

DMS 902	2kg



KOSTER BD 50 COMPOUND

A solvent free, silicone compatible, sealing membrane and adhesive supplied as a thick paste.

DMS 903	10kg



KOSTER SUPERFLEECE

A distinctive non-woven, high strength polyester, reinforcing fabric for liquid waterproofing products.

DMS 360	10cm x 50m
DMS 354	1.05 x 50m



KOSTER BD FLEXIBLE TILE ADHESIVE

A universally applicable single component mineral flexible adhesive with very good adhesion to all mineral materials.

DMS 901	25kg

Koster BD Wet Room System can be purchased as a kit, with the above products - DMS 900

Koster KB-Flex 200 is a permanently plastic, vapour and watertight sealant for waterproofing against pressurised water for pipe and cable penetrations.

The product can be processed quickly and easily from the tubular foil bag, does not shrink, and does not dry out. The material provides a safe and watertight seal against soil moisture as well as pressurised and flowing water.

Features

An easy to use, one component material that creates reliable waterproofing between different material types.

Koster KB-Flex 200 does not shrink or dry out and remains permanently plastic. Due to these properties, cables can be subsequently installed into the finished waterproofing material when necessary.

It's impermeable against water and vapour and can be applied on all mineral construction materials such as concrete, masonry, mortar and plaster, as well as wood, metal and glass. It will also bond to ceramics and plastics including PVC, polyethylene, and polypropylene.

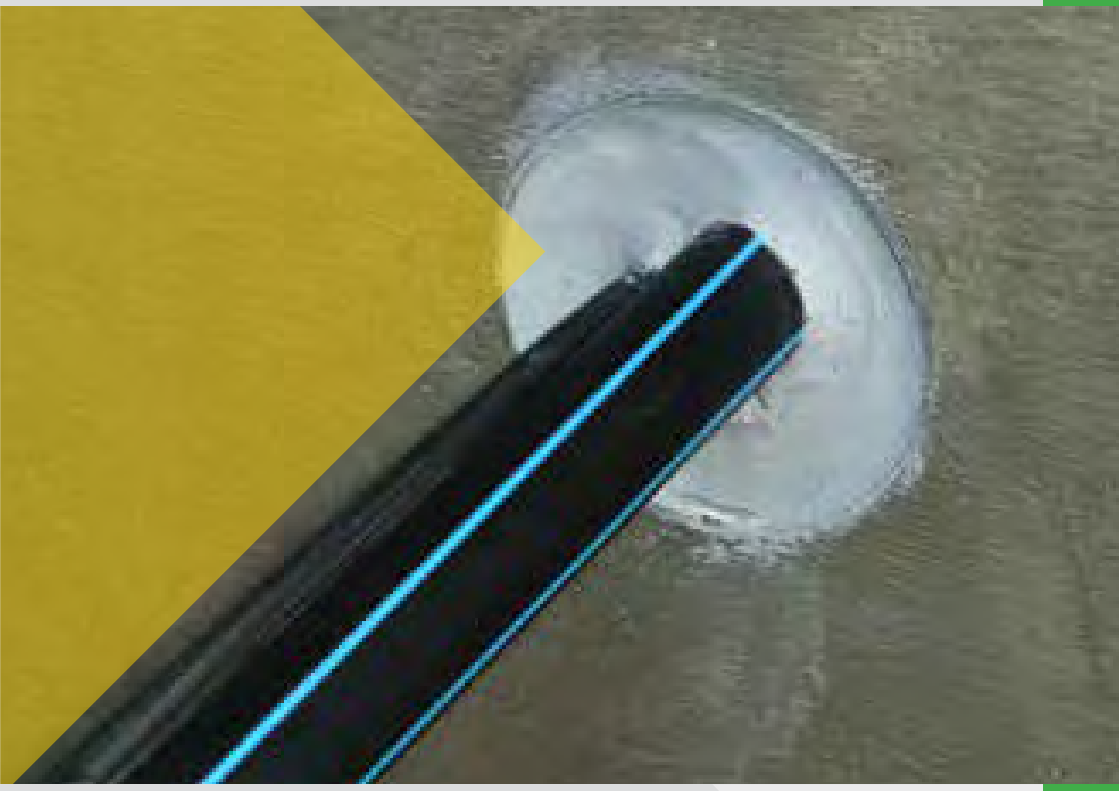
Advantages

- One component material: no mixing necessary
- Very easy application: directly from the tubular foil bag
- Permanently plastic compound material: does not dry out
- Very good bonding: to dry and damp substrates



Koster KB-Flex 200

Immediate Waterproofing/Sealing Compound
for Pipe and Cable Penetrations



Discover peace of mind today

Call 01992 523 523 or
email info@deltamembranes.com for details

DELTA MEMBRANES

WET ROOMS





KOSTER COVER PLATES (FOR VINYL FINISHES)

We offer a choice of stainless steel or white plastic cover plates.

DMS 922	**Polished Steel Cover Plate**
DMS 921	**White Powder Coated Dust Cap**

KOSTER TILE SETS

Act as floorboard replacements with a pre-formed gradient to a square or linear drainage point which allows for the creation of a level access showering space creation of a level access showering space.

DMS 911	**Brushed Stainless Steel Tile Set (95mm deep)**
DMS 912	**Polished Stainless Steel Tile Set (95mm deep)**

Tiled Floor Shower Tray Former	0.8m x 0.8m	Waste 300mm x 400mm	DMS 913
Tiled Floor Shower Tray Former	0.9m x 0.9m	Waste 300mm x 450mm	DMS 914
Tiled Floor Shower Tray Former	1.05m x 1.05m	Waste 300mm x 525mm	DMS 915
Tiled Floor Shower Tray Former	1.2m x 0.9m	Waste 300mm x 600mm	DMS 916
Tiled Floor Shower Tray Former	1.2m x 1.2m	Waste 300mm x 650mm	DMS 917
Tiled Floor Shower Tray Former	1.3m x 0.9m	Waste 300mm x 750mm	DMS 918
Tiled Floor Shower Tray Former	1.5m x 0.9m	Waste 300mm x 850mm	DMS 919
Tiled Floor Shower Tray Former	1.7m x 0.8m	Waste 300mm x 400mm	DMS 920
Vinyl Floor Shower Tray Former	0.8m x 0.8m	Waste 300mm x 400mm	DMS 923
Vinyl Floor Shower Tray Former	0.9m x 0.9m	Waste 300mm x 450mm	DMS 924
Vinyl Floor Shower Tray Former	1.05m x 1.05m	Waste 300mm x 525mm	DMS 925
Vinyl Floor Shower Tray Former	1.2m x 0.9m	Waste 300mm x 600mm	DMS 926
Vinyl Floor Shower Tray Former	1.2m x 1.2m	Waste 300mm x 600mm	DMS 927
Vinyl Floor Shower Tray Former	1.3m x 0.9m	Waste 300mm x 650mm	DMS 928
Vinyl Floor Shower Tray Former	1.5m x 0.9m	Waste 300mm x 750mm	DMS 929
Vinyl Floor Shower Tray Former	1.7m x 0.8m	Waste 300mm x 850mm	DMS 930



KOSTER 1C INJECTION PUMP

Electrical 1C injection pump for injecting of cracks and voids. It is suitable for the injection of all Koster PU injection materials (foams and resins). Operating pressure can be adjusted from 0 - 200 bar. The maximum delivery rate is approx. 2.2 l / min.

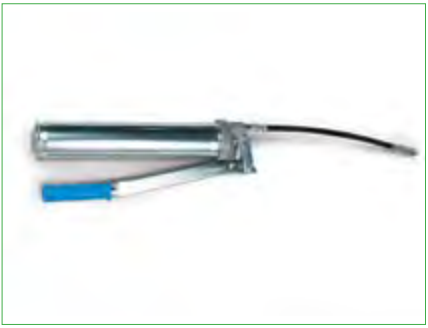
DMS 278	



KOSTER BALL GUN

One-handed adjustable high-pressure injection gun for Koster Acrylic Gel Pump and Koster 1C Injection Pump. An alternative method to a classic ball valve application. Easy to use and is designed for a pressure of up to 250 bar.

DMS 249	



KOSTER HAND PUMP WITHOUT MANOMETER

For small injection projects or areas which are difficult to access. Operating pressure 10 bar max, output approx. 2m³ per pass.

DMS 394	

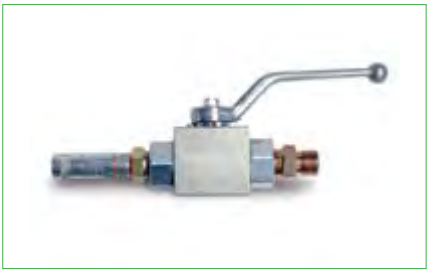


KOSTER SUPERPACKER

The Koster Superpacker is suitable for pressure injections. The Koster Superpacker provides a very high contact pressure to the borehole due to the cone-shaped center of the tightening mechanism. Four fins and two ridges on the rubber gasket prevent rotation. It has a firmly mounted cone-head fitting for pressure injection.

DMS 406	13mm x 130mm (Conehead)

ANCILLARIES



KOSTER BALL VALVE

Part with grip head for 1C Injection Pump.

DMS 248	



KOSTER SLIDE COUPLING

Slide Coupling

DMS 392	



KOSTER GRIP HEAD

With 4 jaws for cone head fittings.

DMS 395	



KOSTER SWIVEL JOINT

Swivel Joint for panhead fitting on Koster 1C Injection Pump.

DMS 393	

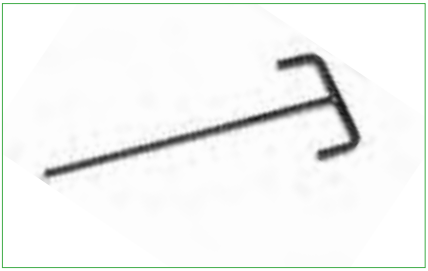


KOSTER INJECTION LANCE

Injection lance with pan head fitting for gel injections.

DMS 390	18 x 300mm
DMS 391	18 x 550mm

ANCILLARIES



KOSTER DEUXAN STIRRER/ ANCHOR

Special stirrer for mixing 2-component polymer modified bitumen thick film sealants, e.g. Koster NB 4000 and Koster Deuxan 2C. Round connector Ø 12 mm for chuck.

DMS 175	



KOSTER DISC STIRRER (FOR NB1 GREY)

Single paddle mixer with ring suitable for the mixing of NB1 and sealing slurries.

DMS 176	



KOSTER NB1 BRUSH

Special brush with waved bristles for the application of materials with a paste-like consistency, e. g. Koster NB Sealing Slurries, Koster KD 1, etc.

DMS 177	



KOSTER CAPILLARY RODS

Koster Capillary Rods are made of a special expanding cellulose, allowing uniform and accurate liquid injection. When using Koster Capillary Rods, bore holes do not have to be filled with Koster Borehole Suspension prior to injection. This saves the applicator the work of re-drilling boreholes.

DMS 230	45cm



KOSTER SUCTION ANGLE

Plastic angle for the pressureless and material saving installation of horizontal barriers against rising damp (wicking moisture) with the Koster Suction Angle System. Re-usable.

DMS 232	

ANCILLARIES



REMOTE CONTROL CABLE

Remote control cable with remote control switch for Peristaltic Pump.

DMS 969	Length 16m



HP-HOSE FOR HAND LEVER PISTON PUMP

High-quality hose with end fittings. Each assembly features one end fitting (which eliminates an incorrectly matched insert and sleeve) and matching hoses. Suitable for the HD 2K and HD 250 models.

DMS 955	5m



HP HOSE FOR A4000

Hose to suit electric airless sprayer A4000 (DMS 950). This quality hose has minimal recoil memory and is super flexible even when under maximum pressure.

DMS 952	16m



REPLACEMENT HOSE KIT

High quality hose with end fittings. Each assembly features one end fitting (which eliminates an incorrectly matched insert and sleeve) and matching hoses. Suitable for the 2-Component Injection Pump 1:1 model.

DMS 962	



GEKA COUPLING FIXABLE (DIA 25)

The GEKA Hose Tail 25mm (1") is a professional quality hose and tail. The hose tail features a striking barbed profile that offers maximum protection of the hose pipe and guarantees a strong and secure hose fit.

DMS 970	1" x 10m



AIR HOSE

High quality flexible hose with quick coupling end fittings. Each assembly features one piece end fitting (which eliminates an incorrectly matched insert and sleeve) and matching hoses

DMS 972	Length 11m

ANCILLARIES



INJECTION BALL TAP

Injection Ball Tap with 4 jaw grip. A great tool to complement the Hand Lever Piston Pump HD 250 (DMS 954).

DMS 956



TRAPEZOID MIXING HEAD

High quality stainless steel Trapezoid Static Mixing Head is suitable for use with the 2-Component Injection Pump 1:1 (DMS 960).

DMS 961



HP GUN FOR A4000

A uniquely designed, lightweight, easy to use Airless Spray Gun that delivers the performance you want. This excellent value airless spray gun that is ideal for use with the A4000 Eco Sprayer (DMS 950).

DMS 951



6 LTR HOPPER FOR A4000

This 6 ltr hopper attachment attaches to the airless sprayer A4000. Supplied with filter and cover. Thread M36x2 with return flow hose.

DMS 953



PLASTIC STATIC MIXER FOR HD 2K

Plastic Static Mixer for HD 2K Hand Lever Piston Pump (DMS 957).

DMS 958



PERISTALTIC PUMP MAINTENANCE KIT

Fitting GEKA. Kit contains spray lance 210nn cpl. set with five nozzles. Set includes 4.5, 6.5, 8.5 & 10.5mm nozzles. Cleaning tools and sponge ball dia 19mm.

DMS 374



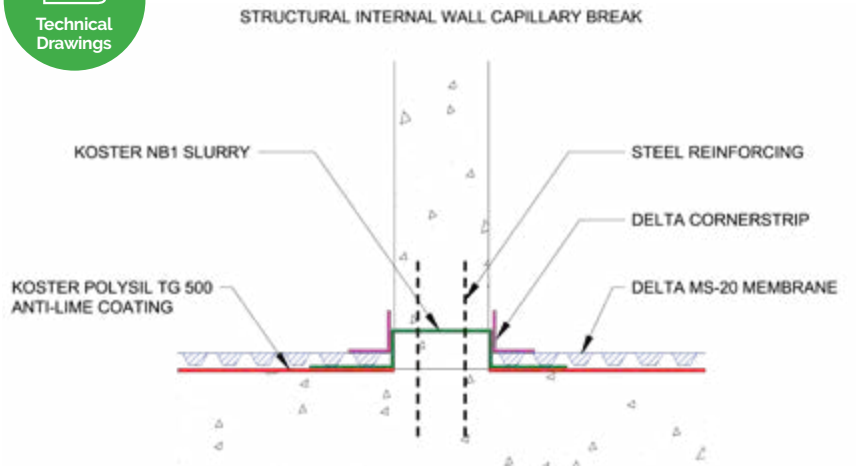
CLEANING BALL FOR PERISTALTIC PUMP

Essential for thorough cleaning of hose and pipes, these spongy rubber balls have a rough texture and are pumped along flexible hoses with either water or cleaning compounds to remove stubborn dirt which rinsing alone will not remove.

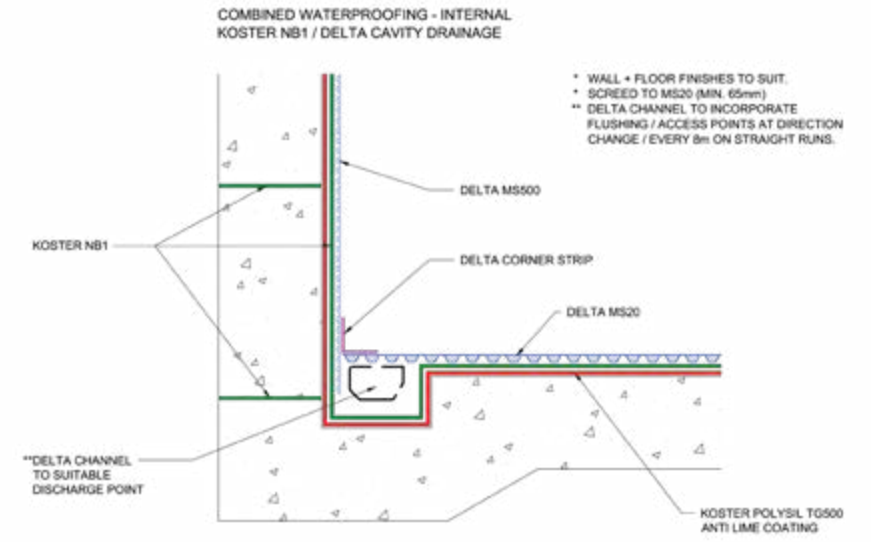
DMS 396 | **DN 25 13 ¾"**

STRUCTURAL INTERNAL WALL CAPILLARY BREAK

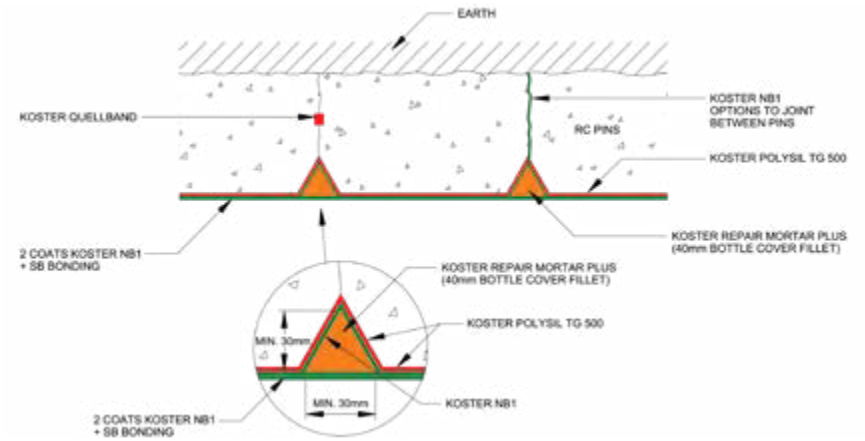
Technical Drawings



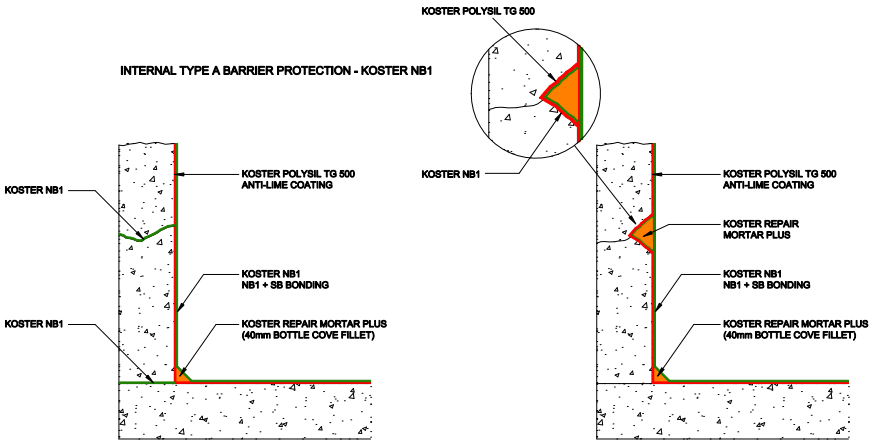
INTERNAL COMBINED SYSTEM - NB1/DELTA MS



KOSTER NB1 PRIMARY WATERPROOFING (UNDERPINS)



INTERNAL TYPE A BARRIER PROTECTION



COVERAGE RATES AND MEASUREMENTS (ROUGH GUIDE)

PRODUCT	SIZE	COVERAGE	APPLICATION
21	20kg	7-8m^2	2 coat application Tools for application block brush, roller or trowel. Glass Fibre Mesh or Flex Fabric embedded in first fresh coat.
BE Rainproof	10 Litres	25m^2	1 coat application
Bitumen Primer	10 Litres	50-60m^2	1 coat application
Crisin Cream	600ml Foil bags	12 cm wall: 600 ml for 4.3m of wall) 24 cm wall: (600 ml for 1.2m of wall) 36 cm wall: (600 ml for 0.8m of wall)	The horizontal barrier is to be installed in such a way that it cannot be overflowed by groundwater, splash water, or other moisture ingress.
Crisin 76 Concentrate	10 Litres		The application of Crisin 76 is carried out using the Koster Suction Angle System for a horizontally installed damp proof course.
Deuxan 2C	32kg	5.1m^2	2 coat application.
Fine Plaster	25kg	At 3mm thickness	Koster Fine Plaster is applied with a 6- or 8-mm toothed trowel, then smoothed with a straight edge trowel.
FS Primer 2C	200g Combi Package	Up to 10m of joint	Mix until a homogenous consistency is reached. Koster FS Primer 2C is applied evenly with a brush in a

APPLICATION THICKNESS	CONSUMPTION	MIXING
2mm per coat	2.5 kg/m³	Use Anchor paddle for mixing. Mix for 3 minutes. In hot conditions 0.8 litres of water can be added.
	Approximately 0.2kg/m	Shake drum
	Approximately 150-200ml/m²	Stri drum
Wall thickness 12 cm: approx. 140 ml/m Wall thickness 24 cm: approx. 330 ml/m (600 ml for 1.8 m) Wall thickness 36 cm: approx. 510 ml/m Wall thickness 48 cm: approx. 700 ml/m	Approximately 150 ml per 100 cm length of 14mm ⌀ drill hole. Allow 5 % additional consumption for wastage.	The sealing clip of the tubular bag is cut off using pliers or scissors. The tubular bag is inserted into the Koster cartridge gun. Attach Extension Tube and inject to full depth of borehole.
Drill horizontal holes (14 mm diameter) according to the table on official data sheet into the lowest horizontal joint with a depth of 5 cm less than the thickness of the masonry. Clean the boreholes. The length of the capillary rods must be at least 7 cm longer than the depth of the drill hole.	Guide value: 0.04 l/m per cm wall thickness.	
3mm per coat. Final total thickness once cured 4mm.	6kg/m2.	Use Anchor paddle for mixing. Mixing time 3 minutes.
2-5mm	1.4kg / m² per mm layer thickness.	Each 25kg bag is mixed with 6.0 litres to 7.0 litres of clean water with helix paddle.
	Approximately 20 g / meter of joint. The consumption varies depending on the roughness and porosity of the substrate.	After a minimum curing time of approx. 4 hours, Koster Joint Sealant FS-H or FS-V is applied.

COVERAGE RATES AND MEASUREMENTS (ROUGH GUIDE)

PRODUCT	SIZE	COVERAGE	APPLICATION
Joint Sealant FS-H (Black)	4kg Combi Package	10 m of joint based on 20mm joint width.	Mix both components thoroughly using a slow speed mixer until a homogeneous consistency is reached, (at least 3 minutes).
Joint Sealant FS-H (Grey)	4kg Combi Package	10 m of joint based on 20mm joint width	Mix both components thoroughly using a slow speed mixer until a homogeneous consistency is reached, (at least 3 minutes).
Joint Sealant FS-V (Black)	4kg Combi Package	10 m of joint based on 20mm joint width.	Mix both components thoroughly using a slow speed mixer until a homogeneous consistency is reached, (at least 3 minutes).
Joint Sealant FS-V (Grey)	4kg Combi Package	10 m of joint based on 20mm joint width.	Mix both components thoroughly using a slow speed mixer until a homogeneous consistency is reached, (at least 3 minutes).
KB Flex 200	800g in 530 ml Foil bags		
KB Pox Adhesive	5kg	Used with Joint Tape 20 (5 meters of joint) (x4 tins per 20m roll) Used with Joint Tape 30 (3.3 meters of joint) (x6 tins per roll)	Koster KB-Pox Adhesive should be mixed at a minimum temperature of + 10 °C. Pre-mix each component separately. Then add the B to the A component and mix until the material has a uniform, streak free appearance.
KBE Liquid Film	24kg	Waterproofer – 12m^2 Primer (diluted) 96m^2	2 coats to be applied if used as a waterproofer. For priming dilute 1 to 2 with clean water.

APPLICATION THICKNESS	CONSUMPTION	MIXING
	Approximately 1.6 kg/l void.	The joint is filled at the earliest 4 hours after priming (while the surface is still tacky) by pouring.
	Approximately 1.6 kg/l void.	The joint is filled at the earliest 4 hours after priming (while the surface is still tacky) by pouring.
	Approximately 1.6 kg/l void	The joint is filled at the earliest 4 hours after priming (while the surface is still tacky) with a caulking gun, material can be smoothed with a sealant finishing tool.
	Approximately 1.6 kg/l void	The joint is filled at the earliest 4 hours after priming (while the surface is still tacky) with a caulking gun, material can be smoothed with a sealant finishing tool
KB-Flex 200 must be installed so that the ratio of the depth (d) to the width (w) is not below 1.5:1. The minimum depth should not be below 8 cm.	Approximately 1.6 kg/l void	If applying in cooler temperatures, warm the Koster KB Flex 200 prior to application by placing it in warm water at maximum +40 °C for a minimum of 15 minutes.
Koster Joint Tape 20 is embedded 40mm at each side. Koster Joint Tape 30 is embedded 50mm at each side. Adhesive layer thickness 2 mm.	Koster Joint Tape 20: 1kg/m, Koster Joint Tape 30: 1.5kg /m	For mixing use a slow rotating drill with a helix mixing paddle.
	1-2.5 kg/m^2 As primer approximately 250g/m^2. For waterproofing approximately 1kg per coat. For seam sealing approximately 0.25kg/m of seam.	Stir well before application.

COVERAGE RATES AND MEASUREMENTS (ROUGH GUIDE)

PRODUCT	SIZE	COVERAGE	APPLICATION
KBE Liquid Film	6kg	Waterproofer 3m^2 Primer (diluted) 24m^2	2 coats to be applied if used as a waterproofer. For priming dilute 1 to 2 with clean water.
KD System Pack KD1 Base:7.5kg KD2 Blitz: 7.5kg KD3 Sealer: 3kg	18kg	Up to 6m^2	The three components are used wet on wet.
MS Flex Foil	8kg	4m^2	2 coat application brush, roller or trowel.
MS Flex Foil	25kg	12m^2	2 coat application brush, roller or trowel.
MS Joint Sealant	900g in 600ml Foil bag	For parallel joints of 10 x 10 mm, one 600 ml tubular bag is sufficient for approximately 6 m of joint.	Applied with a Koster Special Sealing Gun for foil bags.
NB 1 Grey	25kg	8m^2	2 coat application.
NB 4000	25kg	6m^2	2 coat application using (6mm or 8mm) notched trowel.
NB Elastic Grey	33kg	8m^2	2 coat trowel application.

APPLICATION THICKNESS	CONSUMPTION	MIXING
	1-2.5 kg/m² As primer approximately 250g/m². For waterproofing approximately 1kg per coat. For seam sealing approximately 0.25kg/m of seam.	Stir well before application.
Approximately 3mm.	Typical: KD1: 2.5kg/m² KD2: 2kg/m² KD3: 0.5kg/m²	KD1 is mixed with clean water. KD2 and KD3 are applied neat.
Approximately 2mm.	Approximately 1.5 – 2.5kg/m².	Crack endangered areas are re-enforced with Koster Superfleece.
Approximately 2mm.	Approximately 1.5 – 2.5kg/m².	Crack endangered areas are re-enforced with Koster Superfleece.
	Approximately 1.5 kg/l void.	Cut off the sealing clip of the tubular bag on one side, place the tubular bag in the gun and start application.
Using a block brush around 1mm per coat. Total Thickness 2mm.	1.5kg/m² per coat.	6 l water + 2 l Koster SB Bonding emulsion. Use a disc stirrer for mixing.
Approximately 2.1mm/coat. Final total thickness once cured 4mm.	3.6 – 4.8kg/m² Depending on usage.	Add powder to liquid and mix for 3 minutes. Use Anchor paddle.
Final dry thickness 2mm.	Approximately 3.6-4.5kg/m²	Mix Part A with Part B.

COVERAGE RATES AND MEASUREMENTS (ROUGH GUIDE)

PRODUCT	SIZE	COVERAGE	APPLICATION
Polysil TG 500	10kg	66m²	1 coat application. Use Standard Sprayer.
Quellband	6 x 5m lengths	30 linear metres	Used in horizontal and vertical joints. needs minimum 8cm concrete cover.
Repair Mortar NC	25kg	Repair Mortar: 13 Litres Render: 1.3 m2 per cm layer thickness	If applying the maximum layer thickness of 5 cm the surface should also receive a scratch coat made from Koster Repair Mortar NC with 5% Koster SB Bonding Emulsion added to the mixing water.
Repair Mortar Plus	25kg	Repair Mortar: 13.8 Litres Curved Fillet (leg length 4 cm x 4 cm: 10 linear metres.	Mixed with SB Bonding Emulsion for smoother application. Slightly expanding and fast setting mortar for fillets and small repairs.
Restoration Paint White	10kg Bucket	Approx 25m²	Renovation Paint White is a silicone based breathable and hydrophobic paint finish for internal and external use on smooth and rough renders/ plasters. 2 coat application.
Restoration Plaster Grey & White	25kg	At 2cm thickness approximately 1m²	Apply Koster Restoration Plaster Key. Then trowel apply to desired thickness. Can be smoothed after plaster has become firm.
SB Bonding Emulsion	5 Litres	1 drum to 2 ½ bags of NB 1 Grey Slurry. 1 drum to 6 bags Koster Restoration Plaster.	Improves smoothness of application, Enhances adhesion. Increases flexibility of slurries.
Sewer & Shaft Mortar	25kg	1.5m² per cm layer of thickness	Mix 25kg of Koster Sewer and Shaft Mortar with 5.0 – 5.5 l water. Apply by trowel.

APPLICATION THICKNESS	CONSUMPTION	MIXING
	Approximately 0.1 – 0.25kg/m² depending on substrate. Strong absorbent substrates may require more.	Shake drum.
	1 m/m	
	Approximately 1.9kg/l void as repair mortar. Approximately 19kg/m² per cm of layer thickness.	Mix with 4.2 litres clean water, using Dual Disk Stirrer. Mixing time minimum 3 min
Repairs: up to 5cm in one application. Fillet: curved (concave) with leg length 4cm x 4cm.	Repairs 1.8 kg/l Fillet: 2.5kg/linear metre.	2.5 litres of water and 800ml SB Bonding. Mix for 3 minutes with dual disk stirrer.
	Approximately 0.2 l/m² per coat. Consumption can vary due to the nature of the substrate.	Stir thoroughly before use. For primer coat dilute with 10% clean water.
	Approximately 12kg/m² per cm layer thickness.	Mix with 5 to 6 litres of clean water. Mix for minimum 3 minutes with helix paddle.
	1 litre per bag of NB1 Grey. 800 ml per bag of Repair Mortar Plus	Add to mix water, prior to adding powder.
The minimum thickness for a watertight coat is 4 mm, maximum thickness is 3 cm per layer.	Approximately 1.8kg/l void as repair mortar. Approximately 18kg/m² per cm layer thickness.	Mix with dual disk stirrer. Minimum mixing time is 3 minutes.

COVERAGE RATES AND MEASUREMENTS (ROUGH GUIDE)

PRODUCT	SIZE	COVERAGE	APPLICATION
SL Premium	25kg	At 10mm thickness- 1.66 m^2	Pour, then spread with gauging rake. Self-smoothing.
SL Primer	5kg Jerry Can	Approx 50 m^2	Koster SL Primer can be spray, brush, or roller applied.
Waterstop	15kg	7.5 litre void	Placed by hand for sealing active leaks. By adding more water can be trowelled for leaking wall/floor junctions.
Z1 (Grey)	1kg	Approx 1 m^2	Brush Applied.
Z2 (Red)	1kg		

All information is provided as an estimate. For site-specific assistance, please contact Delta's Technical Team at info@deltamembranes.com or call 01992 523 523.

APPLICATION THICKNESS	CONSUMPTION	MIXING
5mm – 15mm in one pour.	Approximately 1.5kg/m^2/ mm layer thickness.	Mix with 5.2 litres clean water. Mix for 3 minutes with dual disc stirrer.
Thin primer coat for SL Premium.	50 - 150g/m^2, dependent on substrate characteristics.	Avoid puddles and excess accumulation.
As required.	Approximately 2 kg/l void	Mix a handful at a time in small tub, with sufficient water to create a stiff mortar.
One coat followed by one coat of Z2.	Approximately 800g/m^2 (per coat)	Mix with 500 ml clean water to form a creamy consistency.
One Coat applied over Z1.	Approximately 800g/m^2 (per coat)	Mix with 500 ml clean water to form a creamy consistency.

RESIN USAGE CHART (ROUGH GUIDE)

MATERIAL	PACKAGING SIZE	VISCOSITY (MIXED)	REACTION START AND END TIME	POT LIFE	FULL CIRCLE
POLYURETHANE					
KB Pur 2 IN 1	25kg combi unit	250mPa	45 secs - 3 mins	45 mins	24 hrs
KB Pur IN 7	27.5kg combi unit	300mPa	20 secs - 1.5mins	6 hours (without water contact)	
KB Pur IN 5	10kg combi unit	155mPa	n/a - non foaming	4 hours	
KB Geo Foam	46kg combi unit	500mPa	3 mins - 35 mins	3 mins	35 mins
EPOXY					
KB Pox IN	1kg or 6kg combi unit	170mPa	n/a	80 mins	2 hours
CEMENTITIOUS					
Micro Grout 1C	24kg bag	Mortar based	n/a	100 mins	min 24 hours
ACRYLIC					
Injection Gel G4	21.4kg combi unit	4mPa	4 mins - 15 mins	24 hours	15 mins
Injection Gel S4	21.1kg combi unit	30mPa	from 17 seconds up to 3 mins	12 hours	15 mins
Injection Gel J4	21.4kg combi unit	35mPa	5 mins - 20 mins	12 hours	12 hours

KOSTER KB PUR 2 IN 1

Single Component Polyurethane that requires a two stage injection. Packers must be re-injected maximum 15 minutes after first injection. When injected into water bearing cracks, the material foams and uses up the water. Upon re-injection the material displaces the foam and leaves a solid body and elastic-permanent-seal. Packers are to be spaced between 100-150mm either side of the crack and drilled at an angle to intersect the centre of the crack. Installation advice in the 'Crack Injection Brochure'. If a fast installation is required, use Koster One Day Site Packers for injection purposes as the packer ends can be removed immediately after injection. Mix the two material components together prior to pouring into material hopper. Minimum mixing time - 1 minute.

KOSTER KB PUR IN 7

Single Component Polyurethane that activates very quickly upon with water. It expands between 20 and 30 times to use up the water within a crack/void and sets to form an elastic foam. Ideal for use where there are voids anticipated within or behind the concrete/pile, etc, also if there is a heavy or fast flow of water observed. Mix the two material components together prior to pouring into material hopper. Minimum mixing time - 1 minute.

KOSTER KB PUR IN 5

Single Component Polyurethane for sealing dry/moist voids. Ideal for injection hoses or where slight movement is anticipated. A very long curing time coupled with a low viscosity, the material can travel a long distance before cure. Mix the two material components together prior to pouring into material hopper. Minimum mixing time - 1 minute.

KOSTER GEO FOAM

Twin Component Polyurethane with large expansion rate. Injected through a twin component pump - do not mix the material parts prior to injection! With a twin component pump the material components are processed separately and do not combine until the mixing head. You can also mix the two components together and pour the material into a void. Actual packer placement, blowhole allowance, etc. to be determined job per job. You must allow for blowholes in your design when injecting into voids, due to the expansion rate of the material there is a high exotherm which must be exhausted. Ideal for void filling and ground stabilisation.

CONSUMPTION	SUITABLE PUMP	SUITABLE PACKERS	COMMON USES	CLEANER
1.1kg/L void	Koster 1C Injection Pump	Koster Superpackers or One Day Site Packers	Actively weeping cracks and construction joints - wet or/and dry cracks - wall to floor joints	Koster KB Pur cleaner
0.1kg/L void	Koster 1C Injection Pump	Koster Superpackers	Heavily leaking cracks - leaking piles - anticipated water filled voids - fast flows	Koster KB Pur cleaner
1.1kg/L void	Koster 1C Injection Pump	Koster Superpackers or One Day Site Packers	Actively weeping cracks and construction joints - wet or/and dry cracks - wall to floor joints	Koster KB Pur cleaner
0.1kg confined/0.1kg unrefined	Twin Component Pump or Mixed & Poured	Koster Lamella Packers	Ground stabilisation - void filling	Koster KB Pur cleaner
1kg/L void	Koster 1C Pump or Vacuum Pump or Mixed & Poured	Koster Superpackers	Structural stabilisation in concrete - structural crack filling - stabilisation	Koster Universal cleaner
1.6kg/L void	Mortar Pump	Koster Lamella Packer	Structural repairs - void filling - ground stabilisation	Water
40kg/m2 - curtain Injection	Koster Acrylic Pump	Koster Injection Gel packer	Curtain/Area Injection ground stabilisation - active leak crack repair	Water
Depends on application	Koster Acrylic Pump	Koster Injection Gel packer	Fast leak sealing - area Injection	Water
Depends on application	Koster Acrylic Pump	Koster Injection Gel packer	Injection into expansion joints	Water

KOSTER KB POX IN

Twin Component Epoxy, which can be injected into structural cracks, poured into open cracks (saturation) or drawn into leak concrete using vacuum methods. Very low viscosity and high Compressive Strength and can be used to seal structural cracks down to 7 microns.

KOSTER MICRO GROUT 1C

Mortar based injection material. Mix with water and pump using a suitable grout pump. Used for structural cracks and voids - dry or damp areas only. Seal active water leaks first using above polyurathene materials. Good flow rate and strong compression characteristics. Also used for ground stabilisation and anchor grouting.

KOSTER INJECTION GELS

These are acrylic based injection resins, contain no VOC's and will not contribute to corrosion of re bar, steels etc. Considered as a 4 component material (Parts - A1, A2, B and the forth being water) the components are mixed to create two parts (A1 + A2, B + water) which are pumped through Koster Acrylic Gel pump. Used for curtain injection, area injection, crack injection and injection into leaking expansion joints (J4). They have a very low viscosity and can be injected at a very low pressure. The material can also be used for consolidating ground - even where flowing is anticipated.

Please read individual and up-to-date material data sheets and/or seek advice prior tp specification if unsure. The installation guidance, packer placement material consumption can alter on a job by job basis depending on a wide variety of characteristics including crack width, amount of water, anticipated voidage, material use. The above guidance is not definitive as injection works are never standard, please make contact if you have any questions.

NATIONAL CLASS - COLD LIQUID APPLIED WATERPROOFING

Building Regulations Part B (Fire Safety) part B4 covers the requirement for external walls and roof of a building or structure to adequately resist the spread of fire over the walls and roof of the structure, and between one building to another. Roof coverings can be found within Section 10 which includes layering of material. With reference to flat roofs, expected covering will usually consist of the deck, a vapour control layer, insulation, waterproofing membrane(s), and any other layers and areas.

The principal amendment of the AB D edition is in relation to external fire performance of roofs. This is no longer the national classification system BS 476-3:2004, but the European Classification System BS EN 13501-5. The European Class Ratings comes with five ratings: ^{B}ROOF(t4), ^{C}ROOF(t4), ^{D}ROOF(t4), ^{E}ROOF(t4) and ^{F}ROOF(t4).

It should also be noted that classifications are for all types of roof systems.

The classification determines proximity of the roof to boundaries of adjacent buildings. Advantages of the ^{B}ROOF(t4) classification is using a roofing system which complies to the ^{B}ROOF(t4) classification no minimum distance is required between structures.

Lower external fire classifications require adjacent buildings and/or structures to be further in proximity.

To meet Building Regulations for fire, installers will be required to prove that the system has a valid test certificate.

Third party testing facilities such as the BRE have established through extensive fire testing on a worst-case scenario basis (timber decking), resolving the requirement for testing on concrete and steel decks.

National Class	European Class	Minimum distance from any relevant boundary (England)	Minimum distance from any point on relevant boundary (Scotland)
AA, AB, AC	BROOF (t4)	Unrestricted and can be used anywhere on the roof	Low vulnerability (<6m)
BA, BB, BC	CROOF (t4)	At least 6m of the boundary	Medium vulnerability (6-24m)
CA, CB or CC	DROOF (t4)	At least 6, 12 or 20m of the boundary depending on the building type and use	Medium vulnerability (6-24m)
AD, BD or CD	EROOF (t4)	At least 6, 12 or 20m of the boundary depending on the building type and use	High vulnerability (>24m)
DA, DB, DC or DD	FROOF (t4)	At least 20m of the boundary depending on the building type and use	High vulnerability (>24m)

FIRE RATINGS TYPE C MEMBRANES

Reaction to fire, often called the Euroclass system gives building products a classification. The 'Reaction to fire' classes test three properties of the building material: spread of fire, smoke intensity and burning droplets. Most building materials sold on the European market must be assigned a file indicating its fire resistance based on a Euroclass rating system. There are 7 Euroclasses of reaction to fire performance for construction products which extend from A1 to F.

Euroclasses and the target safety level	
Euro-class	Target safety level
A1	No contribution to fire even under fully developed fire conditions
A2	Only negligible contribution to fire even under fully developed fire conditions; no spread of fire from the area of the primary fire in the fire development phase
B	In the fire development phase, no spread of fire from the area of the primary and very limited contribution to the fire
C	Under the conditions of a fire in the development phases, very limited spread of fire and limited energy release and ignitability
D	Under the conditions of a fire in the development phases, limited spread of fire and acceptable energy release and ignitability
E	In the case of a very small fire (match flame) acceptable reaction to fire (ignitability, flame spread)
F	No requirements concerning the reaction to fire
Additional assessment classes for smoke development and burning droplets/particles	
Smoke development	s3 (there are no restrictions regarding smoke development s2 (the fully released amount of smoke, and the rise in smoke development are restricted) s1 (stricter criteria than for s2 must be fulfilled)
Burning droplets/ particles	d2 (there are no restrictions) d1 (burning droplets not longer than the defined time) d0 (dripping fire debris is not permitted)

TRAINING

We are proud to be able to offer a wide range of Structural Waterproofing Courses

We offer comprehensive Training Courses designed for professionals in structural waterproofing, damp proofing, basement drainage, flood resilience, and ground gas protection systems. Delta's courses support your professional development and can be delivered at your work premises, on-site, or at our training centre in Epping, Essex.

Structural waterproofing is a term used to describe the methods for preventing/and or managing groundwater entering a structure that is below ground. Delta's Structural Waterproofing Training Course(s) are designed specifically for those working in the structural waterproofing, damp proof, flood resilience and ground gas protection sector.

Delta Training Course(s) are suitable for:

- Architects
- Engineers
- Anyone involved in retrofit and new build basements
- Those seeking to refresh product application and knowledge
- New employees (for those already registered as Delta Registered Installers)
- Anyone who works within the environments of design, planning and installation of any structural waterproofing projects below ground
- Anyone wishing to expand their overall knowledge of waterproofing and wish to have a better understanding of BS 8102:2022
- Those wishing to form a better understanding of water management in basements and below ground structures in relation to waterproofing
- Those seeking to begin the path to become a Delta Registered Installer- stage 1, considered high standing in the industry.

Flexibility with you in mind



1. **Book a course delivered by our experts**

2. **We provide materials and certificates of attendance**

3. **You develop your skills and knowledge**

Our goal is to help you understand water ingress, waterproofing design principles, risk reduction, product specification, and correct installation. Our topics range from short 45-minute CPD seminars to full-day courses. Opt for a one-off session to address an immediate need or combine subjects to create a long-term training program tailored to your operational requirements. We'll provide all the materials and demonstrations and certificates of attendance.

For course enquiries, email **info@deltamembranes.com** or call **01992 523 523**
Download course booking forms from our website **https://www.deltamembranes.com/training**

ON SITE SUPPORT



Comprehensive On-Site Assistance and Site Team Services

We offer a fully integrated service, from initial consultations and design meetings to comprehensive site support.

Delta's On-Site Assistance/Site Team Services specialist team of professionals integrates seamlessly with your team to meet specific project needs. Delta's On-Site Assistance/Site Team Services (DOSA/DSTA) specialises in providing expert waterproofing solutions and site support services. Our team adds value by mobilising experienced and qualified technical personnel to deliver compliant solutions.

Our DOSA/DSTA team compliments Delta's technical experts (CSSW) Certified Surveyors specialising in structural waterproofing and qualified Waterproofing Design Specialists providing essential resources for a robust and reliable waterproofing solution. Our knowledgeable DOSA/DSTA support team is readily available to assist in achieving your waterproofing objectives.

Our knowledgeable and friendly DOSA/DSTA support team is here to help you achieve your waterproofing goals. With extensive experience and numerous industry accreditations, our team provides the on-site support you need to keep your installation operational and on track. We understand best practices and are ready to assist you in implementing them.

Our On-Site Assistance/Site Team Service ensures your company can focus on the job, maintaining smooth, efficient, and productive project management.

Delta's On-Site Assistance/Site Team Services:

- Accurate product mixing is essential for optimal results and efficiency
- Correct product application
- Advanced techniques in product application
- Provide reliable and transparent support
- Implement quick and effective troubleshooting approaches
- Efficiency uncover fresh perspectives
- Ensuring best practice throughout a project

Sharing skills and experience to make your project a success!

We are committed to delivering customer satisfaction and take pride in our reputation for providing exceptional solutions in the waterproofing industry.



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Delta House, Merlin Way,
North Weald, Epping,
Essex CM16 6HR

Tel: +44 (0)1992 523 523

info@deltamembranes.com

www.deltamembranes.com