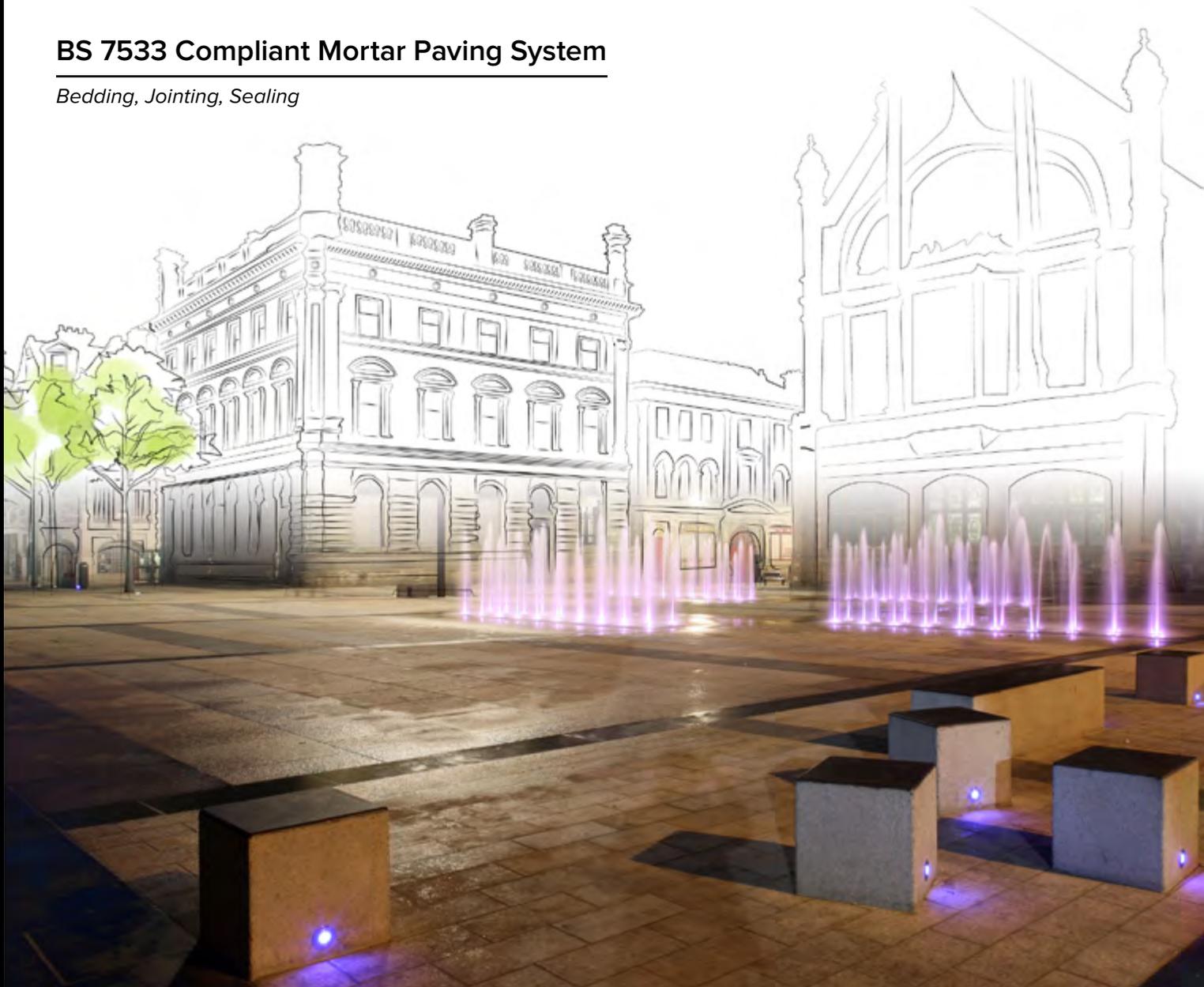


BS 7533 Compliant Mortar Paving System

Bedding, Jointing, Sealing





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Award winning. Global. Experienced. Employee and Client focused.

We are a multi-award winning market leading company. A specialist manufacturer of cement and bitumen based products to the world market for over 40 years. We have built a solid reputation based on the research, development and production of innovative materials for use in urban regeneration, highway maintenance, tiling, commercial flooring and internal finishing.

We are committed to providing high specification products that are durable, proven and independently tested and supported by first class customer, technical and site service.

Manufacturing has been at the heart of Instarmac since 1977 and today products are produced in a modern, automated facility and sold to contractors, distributors and stockists worldwide.

Our own research and development laboratory means that we are always at the forefront of today's technology. Rigorous testing in-house and through certified external bodies offers you the reassurance of a quality guarantee.



Excellence as standard

We are committed to continuously re-evaluating and reducing our environmental impact to encourage a positive, long-term future and have been recognised and awarded several times for our initiatives. UltraScape's eco products contain recycled glass, supporting our customers' own sustainability targets without compromising product quality or performance. By continually working with suppliers to take advantage of the

most energy and waste efficient products and procedures, and employing the latest available technologies, means we are always achieving a year-on-year improvement in our performance.

All our products and systems are certified to ISO 9001, 14001 and ISO 45001. We have been commended for our health and safety processes winning the highly coveted Gold Award from RoSPA (Royal Society for the Prevention of Accidents) nine years running.

Delivery

All processed orders are automatically confirmed by email to you. Our privately owned fleet is managed and fully tracked in-house. Live tracking technology means that we can tell you exactly where your delivery is. Our system will automatically text you when your delivery is only 30 minutes away.

Site support

Whether at contractor or early planning stage, our Site Support Team is always available for one-to-one dedicated assistance tailored to suit your needs. Our help with problem solving, practical use and product performance, ensures that you have the ability to experience our products at your convenience, and guarantees confidence of application throughout your project.



Case Study

Angel Building, Islington:

Office refurbishment

Materials used:

UltraScape's BS 7533

Compliant pro-bed HS,
flowpoint and pro-prime

Main contractor:

J Browne Construction Company Ltd

Strength. Durability. Style.

The Benefits of Compliance

UltraScape's Mortar Paving System is fully BS 7533 compliant and also offers the reassurance of being tested by independent UKAS accredited laboratories, which verify its capabilities.

BS 7533 has developed over 20 years to offer clear, consistent and tested methods for designing and constructing rigid and flexible paved areas offering a minimum construction life of 40 years.



All of our products are available on NBS Plus for ease of specification.

BS 7533

The Mortar Paving System of Choice

BS 7533 Mortar Paving System

A range of high performance, rapid strength bedding, priming and jointing materials that meet and exceed the strict demands of BS 7533.

Sand Stabiliser, Surface Sealant & Gum Adhesion Inhibitor

A single product with 3 uses, solvent free and suitable for flexible or rigid paving constructions.

High Performance Resinous Mortar

An extremely high strength, chemical resistant and waterproof (once cured) mortar for use in heavily trafficked environments, recessed manhole covers and water features.

Stone and Brick Slip Adhesive

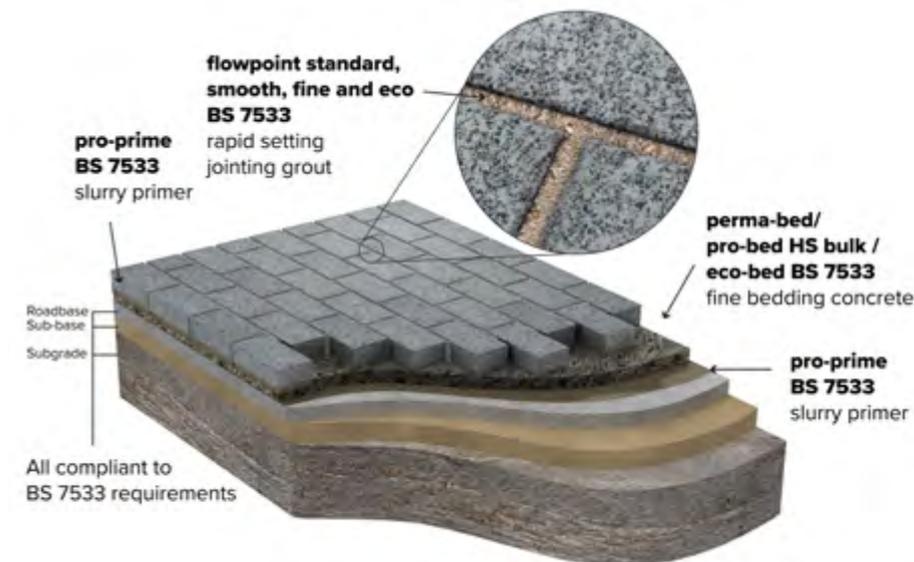
A flexible, polymer modified cladding adhesive, specially formulated with exceptional bond, for fixing brick slips and natural stone to a range of vertical and horizontal surfaces.

Specialist Jointing Sand

A next generation, high specification decorative, brush-in pave jointing solution, made with coloured quartz. Suitable for use with granite, porcelain and other premium quality natural stone.

Trusted reputation

UltraScape has developed a trusted reputation for quality and value added service. UltraScape provides products with guaranteed BS 7533 compliant performance which deliver results time and time again. Our premium products have been specified by contractors, architects and engineers for an ever-expanding portfolio of major schemes across the country because we support our customers with technical advice and work closely with them at specification stage.



BS 7533 Rigid Construction

Bedding

UltraScape eco-bed

UltraScape eco-bed is a fine bedding concrete manufactured to meet and exceed the strict requirements of BS 7533. It contains 20% recycled material, significantly reducing the consumption of virgin aggregates.



UltraScape eco-bed is ideal for schemes looking to achieve an 'excellent' CEEQUAL award, or where a BREEAM assessment is to be conducted on your building.

Meeting the requirements of BS 7533 (Type A and B mortar) is no easy feat, which is why UltraScape provide full and current independent test data, from UKAS accredited laboratories, to show full compliance.

UltraScape eco-bed can be laid from 10mm to 100mm (with greater depths achieved using successive layers).

Mixed solely with water, eco-bed takes away the uncertainty of using a multi-component system.

The extremely fast strength gain of eco-bed also sets it apart from its counterparts; meaning that pedestrian areas can be trafficked in as little as **12 hours** and vehicular in as little as **24 hours**.

Test	Requirement of BS 7533-7;2010	eco-bed	Pass / Fail
Compressive Strength	35N/mm ²	45N/mm ²	✓
Adhesive Strength	>2.0N/mm ²	2.5N/mm ²	✓
Flexural Strength	>4.5N/mm ²	6.3N/mm ²	✓
Modulus of Elasticity	18,000N/mm ² +/- 3,500	19,200N/mm ²	✓
Shrinkage	=/<0.1%	0.09%	✓



Permeable Bedding

UltraScape perma-bed

UltraScape perma-bed bedding mortar has been specifically formulated to drain away any water migrating into the pavement via cracks or damaged areas. It reduces water related pavement failures as it helps rainwater to drain away naturally rather than sit on top of the stone, or worse, stay within the joint, freeze, expand and then break out.



Permeable paving is gaining momentum in the hard landscaping sector, as more and more of the countryside is covered by infrastructure. With less open ground around to absorb the rainfall, large volumes of water are putting increasing pressure on our sewage systems and waterways. As a result, many local authorities and planning departments are incorporating the use of permeable paving systems into their schemes to help manage the problem.

UltraScape perma-bed has been developed with that solution in mind. Pre-blended to reduce costs, increase productivity and minimise on-site mixing errors, perma-bed allows the free passage of water through it, reducing the risk of failure and standing water.

Simple to use – just add water, and quick to install - it can receive foot traffic in **12 hours** and vehicular traffic in **24 hours**.

Test	Requirement of BS 7533-7;2010	perma-bed	Pass / Fail
Compressive Strength	35N/mm ²	39.8N/mm ²	✓
Adhesive Strength	>2.0N/mm ²	2.5N/mm ²	✓
Flexural Strength	>4.5N/mm ²	7.8N/mm ²	✓
Modulus of Elasticity	18,000N/mm ² +/- 3,500	21,000N/mm ²	✓
Shrinkage	=/<0.1%	0%	✓



Drains away water

Bulk Bedding

UltraScape pro-bed HS bulk

Our 28 tonne silos for larger sites, offer the ability to mix the product on-site at the touch of a button. Perfect for large pedestrianisation or commercial regeneration projects.

Ideal where your site has limited storage, a bulk mortar silo from UltraScape can accommodate over 28 tonnes of material in a single load - all in a footprint area of less than 3m x 3m*.

Also available, pro-bed HS in 1 tonne bulk bags. Ideal where site delivery is restricted to rigid vehicles. Contact us to discuss your requirements and feasibility.

*Please contact us to check installation requirements.



Our unique bulk mortar silos feature a 'single chamber' design, meaning that the product you find within the silo is the same, single part, pre-blended, high quality material you find in our smaller 25kg bags.

There are no rental, maintenance or delivery charges*.

A bulk mortar silo from UltraScape not only offers a significant cost saving over traditional bagged material, but also has the added benefit of reducing packaging waste to zero.

*subject to our fair use policy and part loads.



Case Study

Piccadilly Place, Manchester

Central Plaza

Materials used:

UltraScape's BS 7533 compliant pro-bed HS, flowpoint and pro-prime

Main contractor:

Carillion



Priming

UltraScape pro-prime

UltraScape pro-prime slurry primer is used to provide an exceptional bond between your paving element and UltraScape eco-bed, perma-bed and pro-bed HS bulk fine bedding concrete, and can also be used to promote bond between your roadbase and the bedding mortar layer.

Traditionally paving elements would be laid directly onto bedding mortar, but due to ever-increasing traffic loading, street cleaning and general wear and tear, the paving would often break away from the mortar bed, resulting in many high profile, costly failures and associated litigation.



Failed paving is costly. The addition of a slurry primer to a paved construction is essential to guarantee a bond strength compliant with BS 7533.



The addition of a priming layer between the paving element and bedding mortar yields an extremely high bond strength which prevents this type of failure. This increases the life expectancy of your paved area and reduces its ongoing maintenance and potential litigation costs.

The British Standard BS 7533 was modified to reflect and remedy this issue, stipulating a bond strength requirement of greater than 2N/mm², double the previous requirement. This can only be achieved by using a priming agent such as pro-prime slurry primer. Simple to mix and apply, the addition of pro-prime slurry primer to your construction ensures it meets the latest requirements of the British Standard.

Case Study

MediaCity UK

Materials used:

UltraScape's BS 7533 compliant pro-bed HS, flowpoint and pro-prime.

Main contractor:

English Landscapes



Jointing

UltraScape flowpoint standard, eco, smooth and fine

UltraScape flowpoint grout exceeds all of the requirements of the latest British Standard. It is also available in eco, an environmentally friendly formulation, offering all the benefits of flowpoint, but containing 20% recycled material, significantly reducing the consumption of virgin aggregates.

The third variation of this award winning grout, flowpoint smooth, is ideally suited to smooth paving stones and slabs, providing a seamless surface to your construction.

The latest addition to our flowable grout range, flowpoint fine, can be applied to joints from 2-50mm and is ideal for use with porcelain. **See page 28 for further information.**

UltraScape flowpoint grout is ideal for urban regeneration schemes, allowing large areas to be grouted with ease, and simply washed clean.



Foot traffic after 1 hour

For over 25 years, flowpoint has been exceeding the demands of clients. It has been used in a variety of project environments including public realm, landscaping and domestic. UltraScape flowpoint is now synonymous with fast application, cost effective and robust jointing.

Paving grouted with flowpoint can be opened to pedestrian traffic in just 1 hour and vehicular traffic in 4 hours (tested at 20°C).

The product is available in three alternatives: regular, eco and smooth. Overall all three offer the same great features; however you can choose to benefit from recycled material or a smooth surface finish. **Bespoke colours available upon request, minimum order quantity applies.**

UltraScape flowpoint eco is ideal for schemes looking to achieve an 'excellent' CEEQUAL award, or where a BREEAM assessment is to be conducted on your building.

All three alternatives are sold individually as pre-mixed dry packs, which only require the addition of water on-site. Once the desired consistency has been achieved, the product is poured over the paving, filling joints with ease and then the surplus is simply washed off. The nature of this method causes many to worry about staining; however this flowable grout leaves a perfect **stain free** finish.



Visit UltraScape products to see flowpoint in action



Flowpoint Smooth Natural Grey



Flowpoint Smooth Charcoal

Jointing UltraScape cempoint

UltraScape cempoint provides a quick and clean method of jointing both horizontal and vertical faces (such as cladding and steps). Still meeting the strict demands of BS 7533, cempoint combines all the benefits of this exacting standard with the convenience of being installed using a hand-held mortar gun.

As with the rest of the products in the UltraScape BS 7533 compliant mortar paving system, cempoint is supplied as a pre-blended product, requiring only the addition of water on site; thus reducing the potential for colour variance and workmanship issues during installation. UltraScape cempoint is not only specially modified to meet the requirements of BS 7533, but is also manufactured with convenience and usability in mind.



Friars Walk, Newport

The light and pliable texture of cempoint makes it fast and convenient to work with. The hand-held mortar gun allows intricate areas to be grouted neatly. UltraScape cempoint is just as suited to pointing brickwork and stone walling as it is to paving flags and setts.



UltraScape's cempoint gun injected mortar is perfect for those smaller areas which can be difficult to grout. Fast and easy to apply, with no wastage, it neatly and directly fills the paving joint.



Case Study Bullring Birmingham

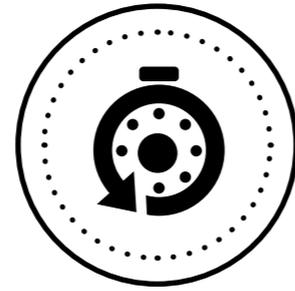
Materials used:
UltraScape's BS 7533
compliant flowpoint and cempoint

Main contractor:
P.J. Carey Ltd

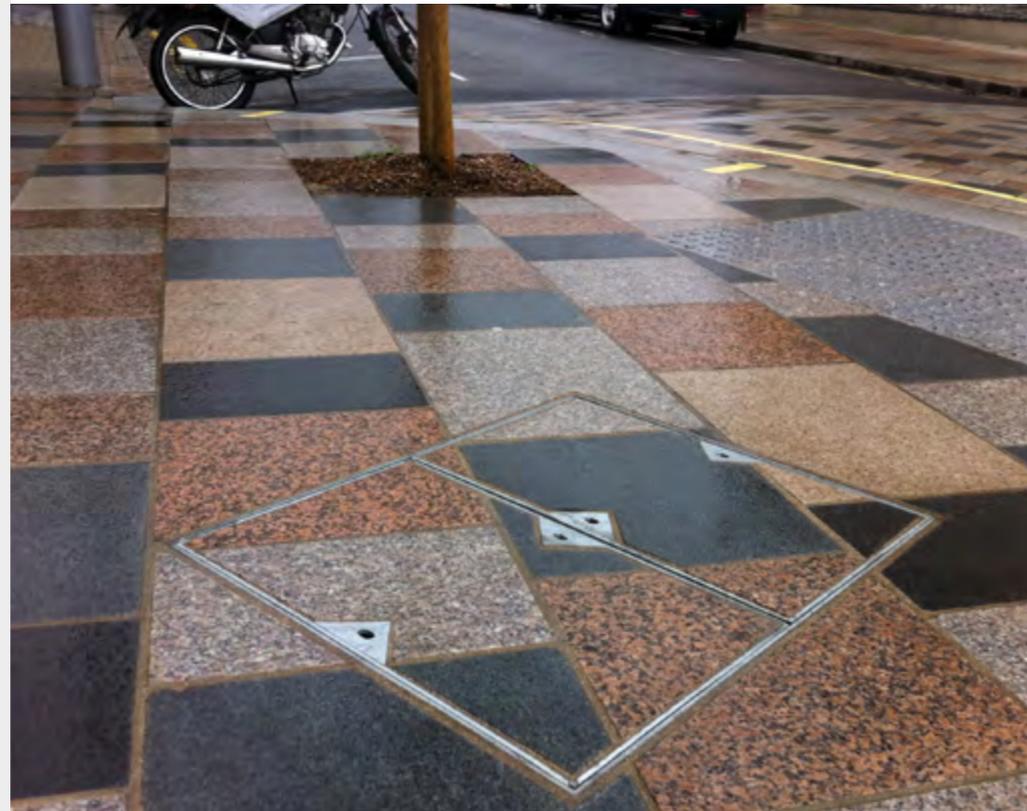
Resinous Mortar UltraScape resi-bed

UltraScape resi-bed is a resinous mortar, which provides exceptional strength and bond for areas under extreme stresses. It is perfectly suited for use on metal stairs and bonding to steel, such as recessed manhole covers.

A resin mortar has exceptionally high bond strength and is a long lasting solution for areas subject to extreme wear and tear.



Foot traffic after 2 hours

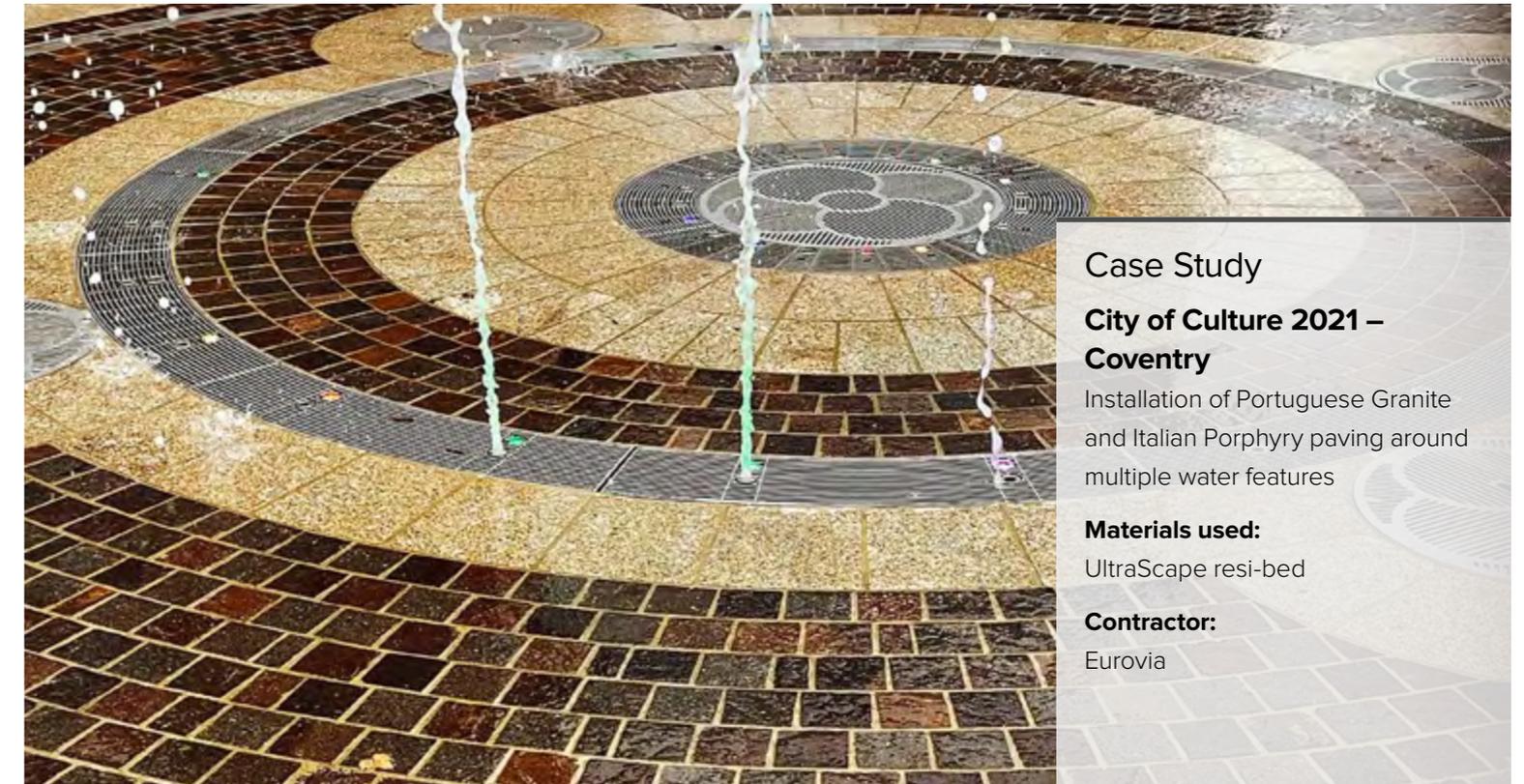


UltraScape resi-bed is entirely waterproof and chemical resistant once cured, making it ideal for use in water features. It has an exceptionally high bond strength and the ability to withstand higher flexural strain than traditional sand and cement mortars. Recessed manhole covers have long been a source of frustration for designers, contractors and maintenance managers

alike. Sand and cement mortars have difficulty resisting the inherent 'flex' of the cover under traffic loading and also have equal difficulty bonding to the steel of the cover itself. resi-bed offers a lasting solution which overcomes both of the issues.

UltraScape resi-bed is also often used on raised carriageway, or 'table' construction,

at the leading edges, where exceptional forces can be experienced. Using conventional mortars on the leading edges of raised tables leads to early failure, which also encourages failure in the surrounding paved area. UltraScape resi-bed can prevent this failure ensuring the table remains intact.



Case Study

City of Culture 2021 – Coventry

Installation of Portuguese Granite and Italian Porphyry paving around multiple water features

Materials used:

UltraScape resi-bed

Contractor:

Eurovia

Stone and Brick Slip Adhesive

UltraScape slipbond

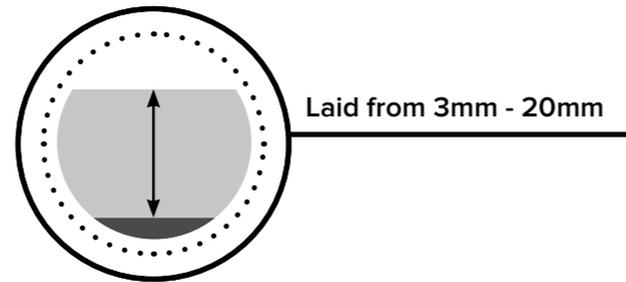
UltraScape slipbond is a flexible cladding adhesive for external and internal wall and floor installations. It consists of blended cements, graded fillers and additives and a high level of redispersible powder polymer.



Polymer modified for increased strength, exceptional bond and enhanced performance.

It is specially formulated with extended workability for fixing brick slips and natural stone to a range of substrates including sand/cement render, brick and block work and can be used for wall and floor applications as well as with external and internal wall installation systems.

UltraScape slipbond's frost resistant formula makes it ideal for use in all weathers. It has extended workability allowing large intricate areas to be covered. It can be applied to a thickness of 3mm - 20mm up to 1m² at a time.



Joint Protection

UltraScape paving guard

UltraScape paving guard is a solvent free liquid sand stabiliser, surface sealant and chewing gum adhesion inhibitor.

UltraScape paving guard provides a versatile solution for joint protection in domestic, commercial and public realm projects.

The product is an acrylic polyurethane hybrid and as such provides both a user-friendly application and an extremely robust and durable finish, normally only achieved with solvent stabilised products.

Joint protection is essential for the longevity of large public realm projects.

Sand Stabiliser

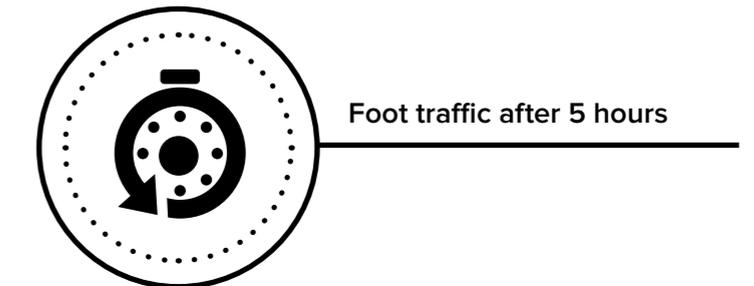
When used on flexibly constructed paved areas, the product bonds the particles of jointing sand to one another preventing wash-out during cleaning cycles, whilst maintaining the necessary degree of flexibility required for this construction type.

Surface Sealant

When applied the product forms a protective barrier to many common stain agents (oil, grease, foodstuffs etc.) and reduces the effects of such stains whilst also facilitating easier subsequent cleaning of treated areas.

Chewing Gum Adhesion Inhibitor

UltraScape paving guard reduces the ability of chewing gum to adhere to the surface of paving; making it easier to remove during normal cleaning cycles.



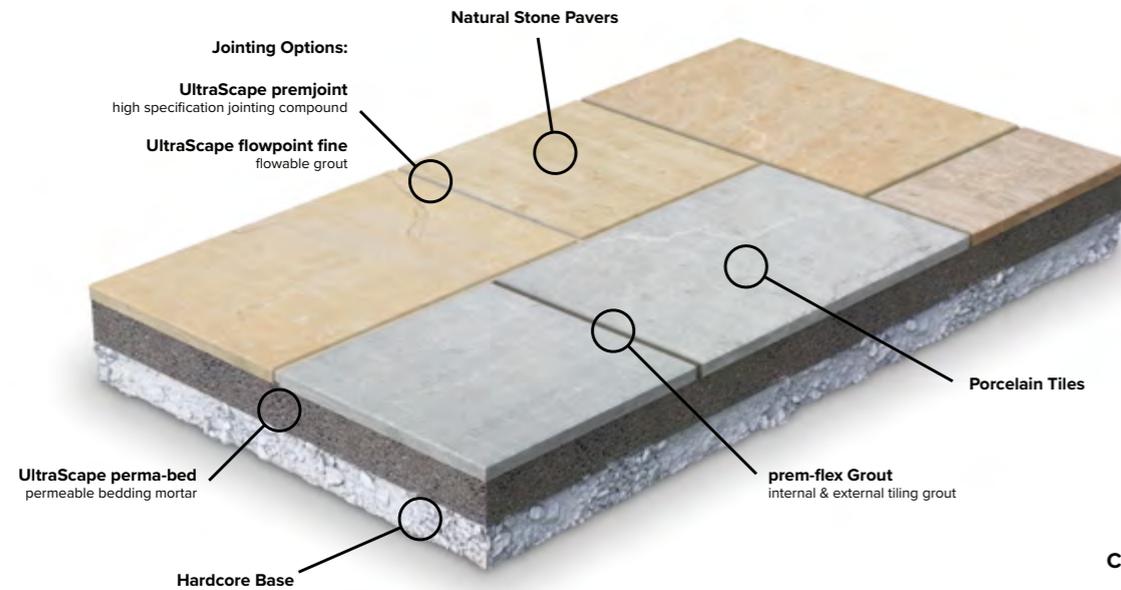
Domestic application



Priming UltraScape prem-prime

UltraScape prem-prime is a polymer modified cementitious slurry primer specifically formulated to provide exceptional bond between all types of stone surfaces and UltraScape eco-bed and perma-bed bedding mortar.

The product is suitable for use on driveways and patios. UltraScape prem-prime can be used with natural stone, concrete flags porcelain tiles and clay pavers.



**ULTRA
SCAPE**

External Paving System

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Jointing

UltraScape premjoint

UltraScape premjoint is a next generation, high specification, decorative, brush-in pave jointing solution, ideally suited to porcelain, granite and other premium quality natural stone. The product is available in 3 bespoke colours – Cosmic Black, Storm Grey and Natural Cashmere – the perfect choice for a seamless transition for paving inside to outside living spaces.



It can be used all year round, in any weather and is suited for use on domestic paving applications or light non-trafficable commercial areas.

Available in 2 grades – fine and coarse – it can be used to fill joints from **3-20mm** or **5-20mm** respectively. The area can accept pedestrian traffic in as little as **24 hours**.

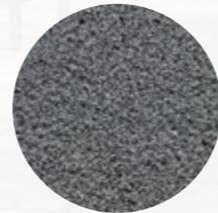
There's no waste on site; any leftover material can be re-used (see storage instructions on technical datasheet).



prejoint
**Natural
Cashmere**



prejoint
**Cosmic
Black**



prejoint
**Storm
Grey**



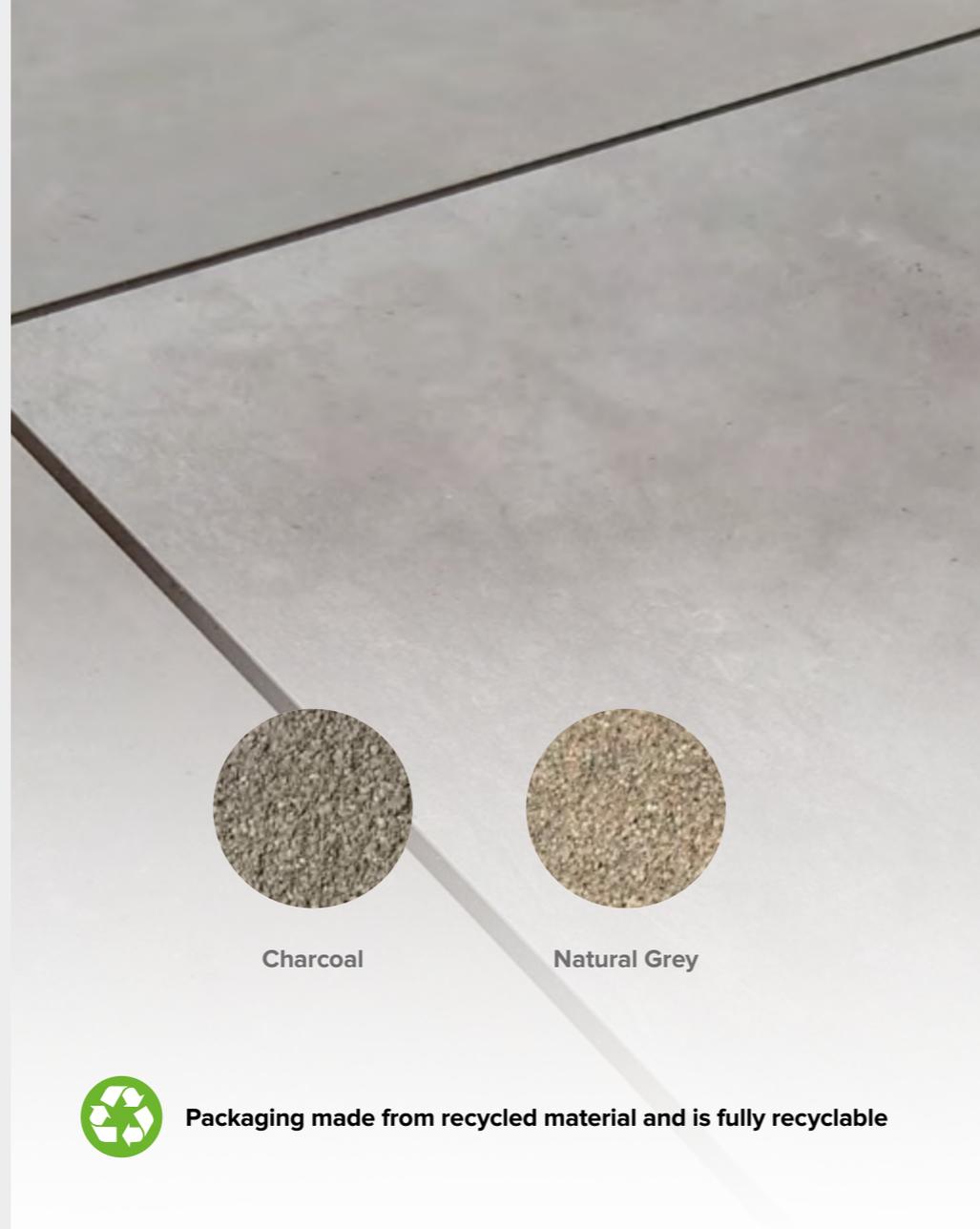
Packaging made from recycled material and is fully recyclable



UltraScape flowpoint fine

Ideally suited for use with a range of premium stone, including 20mm Porcelain tiles, this fourth alternative of our award winning flowable grout, provides a flawless joint designed to be extremely durable and resistant for the long-term.

Available in a handy 20kg bucket, in natural grey or charcoal, it can be opened to foot traffic in just 1 hour.



Packaging made from recycled material and is fully recyclable

UltraScape prem-flex grout

UltraScape prem-flex paving grout is a flexible, cementitious exterior grout specially designed for use with external porcelain paving in the main, as used in garden patios and designed paved areas accepting light foot traffic.

Available in Limestone, Charcoal and Grey to complement a range of Porcelain. It will accept foot traffic after 3 hours. UltraScape prem-flex grout can be used internally and externally, ideal for achieving that seamless transition for indoor – outdoor living.

Available as 3 x 3kg bags in a bucket.



Packaging made from recycled material and is fully recyclable

Ironwork reinstatement materials

We manufacture a range of reinstatement materials for the installation and repair of access covers, galvanised covers, tree pits and gully gratings and for the installation of electric charging points. Our bedding and surfacing materials are manufactured to the highest standards and deliver long-term performance and construction life.

Envirobed® CD534

High Performance Bedding Mortar

The environmentally friendly alternative to resin-based material, suitable for use in heavily trafficked areas for bedding access covers.

- Open to traffic: 1 hour
- Set time: 30 minutes
- Can be used in all weather and in temperatures as low as 1°C
- 53N/mm² compressive strength in 3 hours
- PAS approved



M60

Rapid Strength Bedding Mortar

For use with all access covers and the bedding and profiling of kerbs.

- Open to traffic: 1 hour
- Set time: 20 minutes
- 24N/mm² compressive strength in 1 hour
- PAS approved
- Packaging made from recycled material and is fully recyclable 

QC10 F

Rapid Set Flowable Concrete

A fibre reinforced concrete designed for thick section repairs, haunching reinstatements, ironwork backfilling and sign post installation.

- Open to traffic: 90 minutes
- Set time: 10-20 minutes
- 20N/mm² compressive strength after 90 minutes
- PAS approved



QC6

Surface Reinstatement Concrete

A non-shrink concrete designed for the surface reinstatement of 'picture frames' or fillets around access covers and surface areas around street furniture.

- Open to traffic: 4 hours
- Set time: 15 minutes
- Excellent workability
- Anti-vandal



Reducing our environmental impact

We are committed to continuously re-evaluating and reducing environmental impact to encourage a positive, long-term future.

Resources

Where feasible, we use recycled materials, such as glass in our products, and over the last 12 months, have supplied customers with over 800,000 tonnes of recycled material contained in market leading products such as Envirobed® CD534 and flowpoint eco.

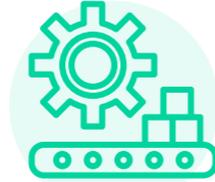
We look to do this wherever possible to reduce our reliance on declining raw materials, producing more sustainable products.

The rise in building developments has seen open ground across the UK vastly reduce and consequently, rainwater that would have naturally drained away through the earth, no longer has anywhere to go, increasing the pressure on our sewerage network and causing flooding. Our permeable paving installation materials have been formulated to help reduce the impact of these increasing volumes of water. See pages 10 and 26.

Manufacturing

We take all the necessary measures needed to ensure our products are manufactured efficiently and with as little environmental impact as possible.

We are working hard with our packaging suppliers to introduce as much recycled content as possible and many of our products are now available in recycled packaging.



Recycling

No waste: we have been a zero waste to landfill site since 2014, meaning all our post production waste is reused or recycled. We also collect our customer's used plastic buckets for free, whilst operating a successful pallet recycling scheme. We are in the process of converting our plastic product packaging to recyclable packaging which is fully recyclable.



Transport

Delivering efficiently: We now own a 35-strong fleet and invest in the most up-to-date logistics technology and efficiency procedures to ensure that we offer an award winning delivery service with a minimal carbon footprint.

Our vehicles are regularly replaced to guarantee we are using modern, smart lorries. We will be running our newly anticipated trucks on Compressed Natural Gas (CNG), which will result in a reduction of CO₂ emissions by 115 tonnes per truck per year.

Usage

Expert guidance: Our highly skilled and experienced training team annually deliver over 100 customer training sessions to ensure the correct installation of our products, increasing the lifespan and reducing waste.



Why choose UltraScape?

Whilst there are many manufacturers claiming their bedding, priming and jointing materials are the best in the market, UltraScape has the independent technical results to back up its claims.

UltraScape eco-bed, fine bedding concrete outperforms the requirements set out in British Standard 7533 and all other materials available on the market. Precision, and the latest advances in manufacturing techniques, means that eco-bed has a guaranteed minimum compressive strength of 45N/mm².



For larger projects, pro-bed HS bulk is available in 28 tonne silos. When UltraScape's fine bedding concrete is manufactured in bulk, an additive is blended into the mix which guarantees the same performance as small batched material.

Every silo of pro-bed HS is delivered with test results to show the quality control measures in place throughout the manufacturing process and, where requested, UltraScape's Technical Manager can provide assistance with Cube Tests and advice on best practice when carrying out your own testing on-site.

The advanced formulation of UltraScape eco-bed and pro-bed HS bulk means we can provide you with a bedding concrete which boasts strengths exceeding the requirements set out in BS 7533 and a Modulus of Elasticity of 19200N/mm² - this means our bedding concrete will continually absorb the thermal dynamic stresses found in all paving schemes.

Whilst the latter is extremely important, high strengths and Modulus of Elasticity are of little use without a high level of Adhesion. By using pro-prime slurry primer on your paving scheme, you will get a guaranteed bond strength of 2.18N/mm² and an overall flexural strength of 7.5N/mm².

The mixing of UltraScape materials are also a fraction of the cost compared to other materials available on the market. Whilst smaller projects will only require small batch mixing, larger projects can opt for silos which means you can receive product which is pre-mixed and ready to lay, all at the touch of a button. Please see a small calculation opposite to further demonstrate this cost saving.

2,000m² project at 30mm will require 112.3 tonnes of material.

If you mix 4 x 25kg in each stage, you will need to do 1,123 mixes.

The industry recommends that each batch of material is mixed for between 3 and 5 minutes.

Based on 3 minutes of mixing, a total of 56 hours would be needed to prepare the bedding mortar ready for laying – this does not include loading and cleaning of machinery!

Another benefit to using UltraScape's BS 7533 Mortar Paving System is each product in the system is delivered pre-blended eliminating on-site mixing errors and allowing product to be mixed and applied quickly.

In summary

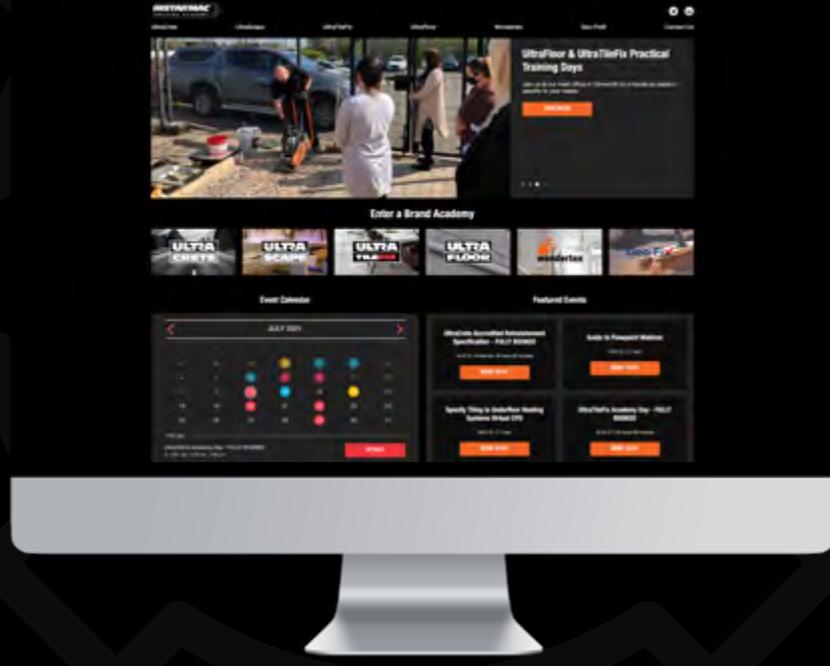
- 38N/mm² Compressive Strength on 28 tonne silos of pro-bed HS fine bedding concrete – **this exceeds the requirements of BS 7533**
- 45N/mm² Compressive Strength on 25kg bags of eco-bed – **this exceeds the requirements of BS 7533**
- 19200N/mm² Modulus of Elasticity – **this exceeds the requirements of BS 7533**
- 2.18N/mm² Adhesive Bond Strength – **this exceeds the requirements of BS 7533**
- 7.5N/mm² Flexural Strength – **this exceeds the requirements of BS 7533**
- Additive manufactured in laboratory conditions for increased bulk performance
- Available in 28 tonne silo – reducing costs on mixing
- Manufactured in the UK using UK aggregate
- UltraScape flowpoint eco jointing mortar provides the highest specification on the market containing 20% recycled material. A certificate will be provided at the end of each project to show the amount of virgin aggregate saved throughout the duration of the project.

Continue learning from home, the office or out on site!

Online training academy

Launched in June 2021, our online training academy offers a wealth of resources to help you continue your professional development. Take part in webinars, complete CPDs, download podcasts, watch a variety of 'how-to' videos and access a huge library of technical and educational resources.

Visit: trainingacademy.instarmac.co.uk



Virtual CPDs

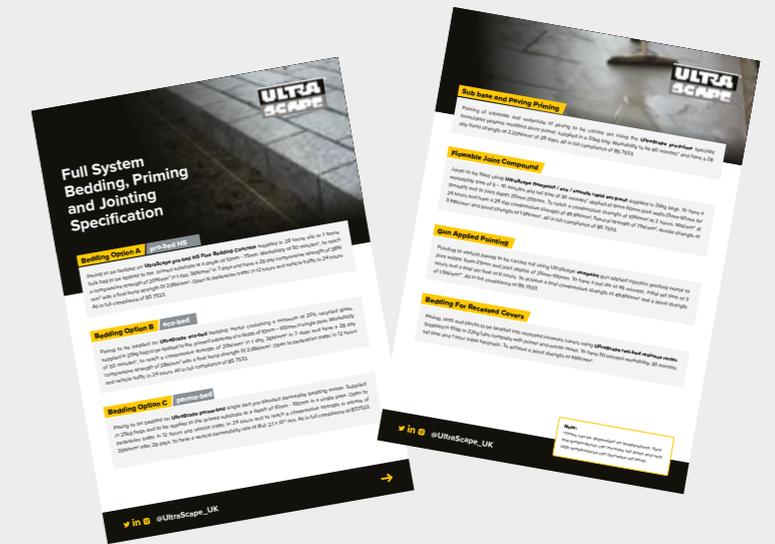
Instarmac is an approved CPD provider to the Royal Institute of British Architects (RIBA) and the Royal Institute of the Architects of Ireland (RIAI). Our CPDs, Paving the Way and The Environmental Benefits of installing Permeable Paving, are delivered by our staff via our training portal or in person, either at you premises or at our purpose built facilities in Staffordshire. We offer a range of CPD packages so you can complete the session using the most convenient method to suit your needs.



Specification Aid

When specifying the UltraScape BS 7533 approved mortar paving installation system, the specification template you are completing should include information on packaging type and size, application data, material strengths and setting times.

We have created a condensed, yet comprehensive performance specification clause for each of our materials. Whilst also including all options for bedding, so that the best material for your job can be easily compared and then selected. Download your copy by visiting instarmac.co.uk/support/download-centre/



Product Selection Guide	eco-bed	perma-bed	pro-bed HS Bulk	pro-prime/prem-prime	flowpoint / eco	flowpoint smooth	flowpoint fine	cempoint	resi-bed	paving guard	slipbond	premjoints	prem-flex
Product overview	Single part, pre-blended, BS 7533 compliant, fine bedding concrete. Contains 20% recycled glass	A bedding material specifically designed to drain away any water migrating into the pavement via cracks or damaged areas	Single part, pre-blended, BS 7533 compliant, fine bedding concrete. Supplied in bulk concrete silos or 1 tonne bags.	Single part, pre-blended, BS 7533 compliant slurry primer	Single part, pre-blended, BS 7533 compliant slurry grout. Also available with 20% recycled glass	Single part, pre-blended, BS 7533 compliant slurry grout, with a smooth surface finish	Single part, pre-blended BS 7533 compliant slurry primer, with a seamless finish	Single part, pre-blended, gun applied, BS 7533 mortar for vertical and horizontal jointing	Pre-batched resin mortar and primer system for use in areas of high stress or where chemical or water resistance is required	Solvent free liquid sand stabiliser, surface sealant and chewing gum adhesion inhibitor	Vertical stone and brick slip adhesive	A high specification, decorative, brush-in pave jointing solution, suitable for use with granite, porcelain and other premium quality natural stone	A flexible, cementitious exterior grout specially designed for use with external porcelain paving
Working time at 20°C	40-50 minutes		40-50 minutes	90 minutes	5-15 minutes	5-15 minutes	5-15mins	45 minutes	30 minutes	120 minutes	2 hours		30-60 minutes
Set time for foot traffic at 20°C	12 hours	12 hours	12 hours	N/A	1 hour	1 hour	1 hour	12 hours	5 hours	5 hours	16 hours	24-48 hours	3-4 hours
Set time for vehicular traffic at 20°C	24 hours	24 hours	24 hours	N/A	4 hours	4 hours	4 hours	24 hours	6 hours	24 hours	N/A	N/A	
Unit size	25kg bag		28 tonne silo / 1 tonne bag	20kg bag and 17kg bucket	25kg bag	25kg bag	20kg bucket	20kg bag	22kg tub	25 litre drum	20kg bag	15kg bucket	3 x 3kg bags in a bucket
Product yield	13.36 litres	12.7 litres	14,963.20 litres / 534.40 litres	16.9 litres/14.37 litres	13.9 litres	13.9 litres	11.12 litres	11.6 litres	9.5 litres	25 litres	15 litres		
Coverage	0.45m ² per bag at 30mm bed depth	1m ² at 12.7mm per 25kg bag	17.8m ² per tonne at 30mm bed depth	15m ² per bag and 13m ² per bucket	1m ² per bag using 100 x 100 x 100mm setts (8mm joint) 7m ² per bag using 600 x 400 x 60mm flags (8mm joint)	1m ² per bag using 100 x 100 x 100mm setts (8mm joint) 7m ² per bag using 600 x 400 x 60mm flags (8mm joint)	1m ² per bag using 100 x 100 x 100mm setts (6mm joint) 7m ² per bag using 600 x 400 x 60mm flags (6mm joint)	1m ² per bag using 100 x 100 x 100mm setts (6mm joint) 7m ² per bag using 600 x 400 x 60mm flags (6mm joint)	0.32m ² per tub at 30mm bed depth	6m ² per litre	5m ² at 3mm depth	Joint width x joint depth: 8-9.5 sqm based on a paving size of 450mm x 450mm x 25mm (depth) for an 8mm joint gap.	Dependent on size of paver, please refer to our product calculator at ultrascape.co.uk
Minimum and maximum width/depth	10-100mm	10-100mm	10-100mm	N/A	5-50mm width, up to 200mm depth	3-50mm width, up to 200mm depth	2-50mm width, up to 200mm depth	5-25mm width, 25-100mm depth	5-50mm	N/A	3-20mm	3-20mm (fine grade) 5-20mm (coarse grade)	1-20mm
Compressive strength	45N/mm ² (28 days)	>35N/mm ² (28 days)	38N/mm ² (28 days)	N/A	49.6N/mm ² (28 days)	75N/mm ² (7 days)	N/A	N/A	6.70N/mm ² (28 days)	N/A			
Adhesive strength	2.5N/mm ² (28 days)	>2N/mm ² (28 days)	2.5N/mm ² (28 days)	2.2N/mm ² (28 days)	>1.5N/mm ² (28 days)	1.5N/mm ² (28 days)	1.5N/mm ² (28 days)	>1.5N/mm ² (28 days)	45N/mm ² (7 days)	N/A	>1N/mm ²		N/A



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