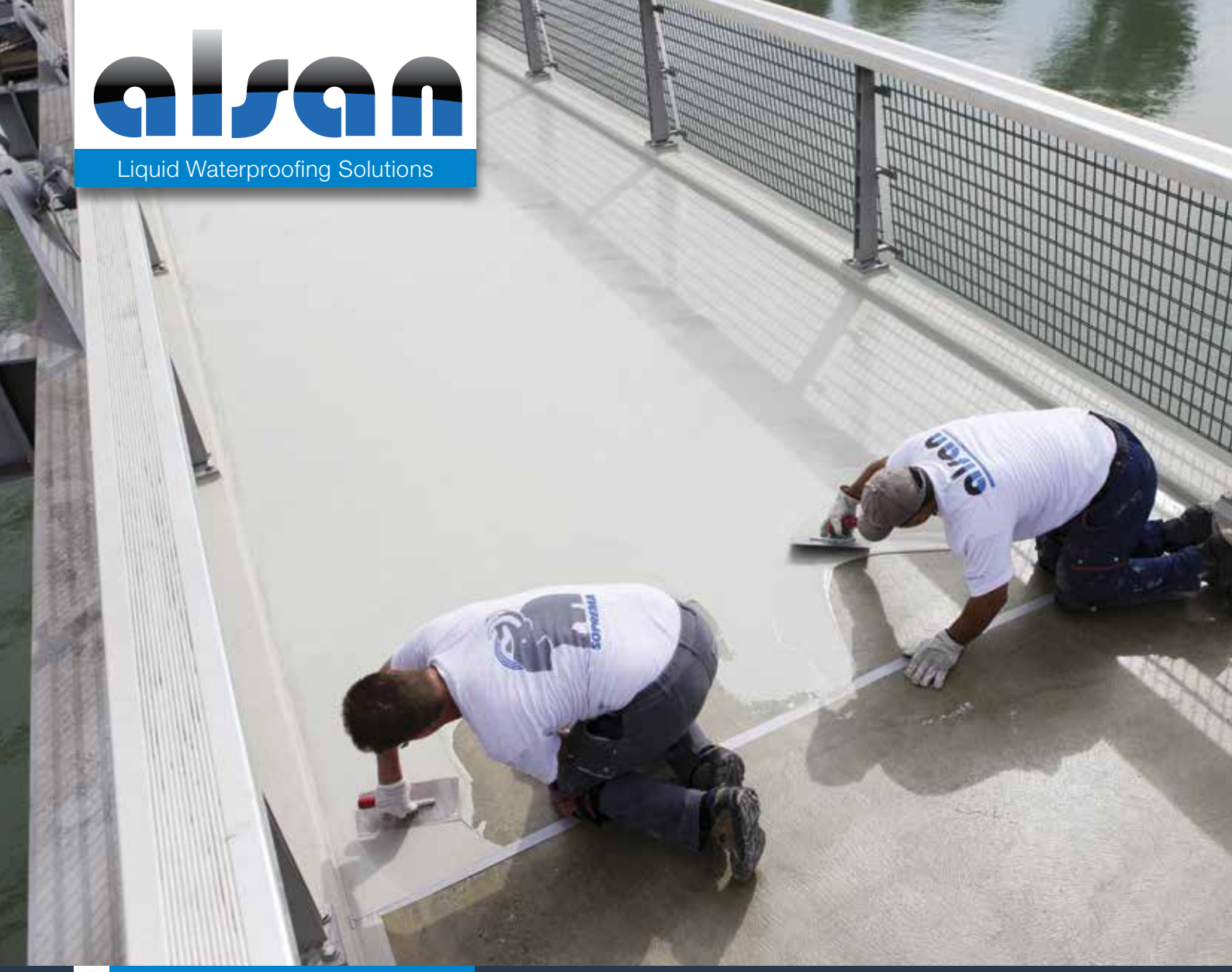
alsan

Liquid Waterproofing Solutions



FOR RESIN SPECIALISTS

walkways car parks terraces roofs fast-curing surfacing waterproofing liquid

alsan® PMMA user manual

User manual for the perfect installation of Alsan® 770 liquid waterproofing systems.

SOPREMA GROUP

Liquid waterproofing systems are used when traditional waterproofing membranes are difficult to install.
Pedestrians are able to use the areas directly without requiring additional coverage (cement slabs, paving, pavers on paving supports…).

Installation

expertise

When are liquid waterproofing systems used?

- Surfaces where a high quality and intricate finish is restricted by traditional waterproofing methods: stadium terraces, walkways, cupolas, gutters, wet rooms, walk-in showers…
- Structurees where there is a weight restriction and additional layers are not permissible, particularly refurbishment projects: balconies, terraces, flat roofs...
- Areas were joints are prohibited: laboratories, clinical and sterile environments, …
- Sites that do not allow the use of a flame during application.
- Work sites with limited access or space for equipment.

What are the key success factors of liquid waterproofing application?

To obtain long-lasting and functional waterproofing system, the quality of both the workmanship and the product are fundamental to successful application.
Our **Alsan® 770** user manual is a practical aid for quick reference and detailed information.

# of alsan® PMMA systems

User manual index

BASIC INFORMATION CONCERNING WATERPROOFING SYSTEMS

Substrate inspection

Rules, advice and tips

- The substrate's residual dampness should not exceed 5%.
- Respect drying times for new cement-based substrates: at least 28 days.
- All paint residue must be removed mechanically.

Calculating the dew point

Measuring device DEW CHECK

Ideally, the dew point is calculated with the appropriate measuring device.

This device automatically calculates the dew point and its spacing, taking account of a spacing factor of 3°C.

It also indicates the air and substrate temperatures, as well as humidity in the air.

The dew point chart can be used as an alternative if such devices are not available.

Contact **SOPREMA** to obtain the dew point chart.

Take account of the fact the temperature of the substrate is always below the air temperature, so there may be a difference.

This is why we recommend purchasing a dew point measuring device.

To determine the dew point temperature, you must at least have a hygrometer (humidity in the air) and a thermometer (air temperature). Using this data, the dew point may be read directly on the chart.

1

Void investigation
Examine the substrate using a hammer to detect eventual weak points in the Structuree and mark those areas accordingly.

2

Non-destructive testing for relative humidity of substrate
The substrate must indicate a maximum humidity level of 5% (based on the mass) or 16% (based on the volume) that can be detected in a non-destructive manner using electronic measuring devices.

3

CCM Methodology for ground moisture testing
Humidity detecting based on calcium carbide, using a CCM device.
This is a very precise method in which a sample of the substrate is removed.

4

Compressive strength study
Test resistance to pressure of the substrate by using a Schmidt hammer.

5

Adhesive strength study
This is done using a device to measure adherence.
- Cementitious substrates: 1.5 N/mm².
- Asphalt surfaces: 0.8 N/mm².

6

Core sample
A core sample study can be used to determine the existence of previously installed systems that may impact current system selection.

Substrate Preparation

Rules, advice and tips

- **Manual sanding, roughing**
  Carried out by hand using sand paper, when mechanical sanding is not possible.
  Grading: 20 - 40.
- Shotblasting is the most efficient method for concrete surface preparation over wide open spaces.
- **Cleaning the substrate**
  Approximately 30 minutes airing time should be allowed for the evaporation of solvents.

Cleaning

Vacuuming
Final cleaning using a vacuum cleaner is strongly recommended to obtain a perfect surface, ready to be treated.

Tool cleaning
Tools should be cleaned immediately and thoroughly with **Alsan® Cleaner** or **Alsan® All-Purpose Cleaner.**

1

Shot blasting
Contaminants are found in the upper layer of finished concrete and will adversely affect adhesive strength. Shot-blasting will remove this layer and smooth the surface, whilst also removing dust.

2

Diamond grinding
A handheld grinder with a diamond cup wheel is the easiest way to prepare small areas, as well as vertical walls, upstands and curbs.
Removal of abrasive dust through vacuum suction is highly recommended.

3

Milling
Milling is recommended for the preparation of very rough substrates..
A subsequent shot-blasting will provide an optimal surface for subsequent coatings.

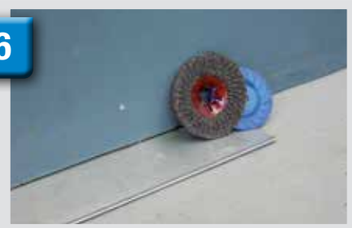
4

Sandblasting
Sandblasting is an efficient method for surface preparation of vertical surfaces, but protective measures are necessary.

5

Cleaning
Clean non-absorbent surfaces with a suitable cleaner. Use the dedicated Alsan Cleaner).

6



Mechanical sanding/roughing
Using a corundum abrasive disk on metal sheeting, around window frames and wooden supports…
The rougher the support, the more effective the system's adherence will be!

PRELIMINARY STEPS

Mixing

Alsan® PMMA products are highly reactive, dual component resins, composed of polymethyl methacrylate (PMMA)

This is combined with a catalyst, which activates the chemical reaction. Dosage of the catalyst, as well as temperature, affect curing time...

Rules, advice and tips

- Ensure the catalyst and resin component are uniformly mixed to enable polymerisation.
- Caution: you must continue mixing until the chemical reaction takes place. Keep the bucket and tools clean.
- Wear individual protective equipment (glasses, gloves) and make sure the work area is well ventilated.
- After polymerisation or curing, residual waste left over in the original containers or the mixing containers must be discarded in accordance with regulatory requirements.
- Avoid contact of the cleaning product with skin.

1

First, carefully stir the liquid in its container. When mixing, make sure the catalyst is well blended and uniformly mixed.

For a minimum dosage, this mix may be obtained mechanically (drill with mixer attachment).

2

Fill the clean container to be used for the mix with the right amount of product (filler coating, resin, self-leveling mortar, etc.).

3

Add the catalyst (according to the mix chart indicating temperature and preparation time), with the mixer running at low speed and blend for 2 minutes (small quantities may be mixed by hand).

PRIMERS

Alsan® 170

Primer for concrete substrate

Rules, advice and tips

- Remove the adhesive strip immediately after applying.

1

Before the start of the waterproofing work, prepare and clean areas of application and mask off application with tape.

Alsan® 176

Primer for concrete resurfacing

Depending on the substrate requirements, instead of using **Alsan® 170** we recommend using **Alsan® 176** (binder and mineral filler), supplied pre mixed.

A sufficient quantity of **Alsan® 176** primer must be applied, using a smoothing trowel, on the appropriately cleaned and prepared substrate.

The grading of the mineral filler directly provides the proper thickness.

Consumption depends on the quality of the support: ~ 0.8 to 1.2 kg/m²/mm.

2

Prime surface as necessary (refer to substrate chart p.30-31).

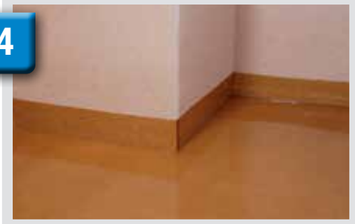
Wood and concrete substrates must be primed.

3

Apply the primer on the main surafce using a roller.

Consumption based on roughness: ~ 0.5 kg/m².

4



The next layer in the system can be applied as soon as the primer is fully cured.

Technical data sheet

Dosage of the catalyst

Adding the catalyst and conversion for weight/volume:10 g = 15 ml								
Product weight (kg)	Catalyst to be added							
	1 % - 35°		2 % - 25°		3 % - 15°		4 % - 5°	
	g	ml	g	ml	g	ml	g	ml
1	10	15	20	30	30	45	40	60
2	20	30	40	60	60	90	80	120
3	30	45	60	90	90	135	120	180
4	40	60	80	120	120	180	160	240
5	50	75	100	150	150	225	200	300
6	60	90	120	180	180	270	240	360
7	70	105	140	210	210	315	280	420
8	80	120	160	240	240	360	320	480
9	90	135	180	270	270	405	360	540
10	100	150	200	300	300	450	400	600

Tools

Alsan® 770 primers range

Product	Function	Use	Consumption
Alsan® 170	Primer for concrete.	Apply with a roller.	0.4 to 0.8 kg/m².
Alsan® 176	Primer for concrete resurfacing.	Viscous, with filler. Apply with a trowel.	0.4 to 0.8 kg/m².
Alsan® 172	Primer for asphalt.	Apply with a roller.	0.4 to 0.8 kg/m².
Alsan® 171	Primer for mixed use.	Apply with a roller.	0.4 to 0.8 kg/m².
Alsan® 178	Primer for Reflectroof system.	Apply with a roller.	0.4 to 0.8 kg/m².
Alsan® 173	Primer for TPO.	Apply with a roller.	0.1 to 0.15 kg/m².
Alsan® 174	Primer for metal.	Apply with a roller.	0.1 to 0.2 kg/m².
Alsan® 175	Primer for glass.	Apply with a roller.	0.03 to 0.06 kg/m².

Tools

Roller or trowel, depending on the primer, See side chart.

FILLING MATERIAL AND REPAIR MORTARS

Alsan® 074

Thick resin used for leveling and preparation of substrate to eliminate voids.

Rules, advice and tips

- Caution: you must continue mixing until the chemical reaction takes place. Keep the bucket and tools clean.
- Wear individual protective equipment (glasses, gloves) and make sure the work area is well ventilated.
- Remove the adhesive strip immediately after applying.
- Avoid contact of the cleaning product with skin.

1

Place the right amount of product in the container used for mixing, (to be mixed in max proportion of 1/3 with quartz sand).

2

Add catalyst activator and mix throroughly.

3

Prime all areas prior to application of **Alsan® 074** Paste. Fill cavities, etc.

The paste may be applied using a trowel or a spatula.

Consumption depends on the quality and type of substrate, approximately: ~ 2 kg/m²/mm.

4

Allow the paste to cure prior to subsequent layer applications.

Alsan® 072 RS

Alsan® 072 RS mortar is a ready-to-use blend of resin and mineral filler for leveling and repairing major defects and irregularities in the substrate.

Rules, advice and tips

- Caution: You must continue mixing until the chemical reaction takes place. Keep the bucket and tools clean.
- Wear individual protective equipment (glasses, gloves)and make sure the work area is well ventilated.
- Remove the adhesive strip immediately after applying.
- Avoid contact of the cleaning product with skin.

1

Place the right quantity of mineral filler in the container used for mixing.

Add the resin compounds.

2

Mix mechanically with care, at low speed for 2 minutes, then add the catalyst.

Caution:
The amount of catalyst required must be calculated according to the quantity of resin used.

3

The mortar may be applied using a trowel or a spatula.

Important:
Be sure to compress the mortar sufficiently.

Consumption depends on the quality and type of support, approximately: ~ 2 kg/m²/mm.

4

Allow the mortar to cure prior to subsequent layer applications.

Technical data sheet

Alsan® 770 product range of pastes

Product	Function	Use	Consumption
Alsan® 074	Reprofiling and repair mortar.	Paste applied using a spatula, multiple uses (smoothing, straightening and setting).	1.5 to 2 kg/m²/mm.
Alsan® 075	Micro-fibre infused resin paste.	Fibre paste applied using a spatula for waterproofing of hard-to-reach areas.	2 kg/m²/mm.

Tools

Alsan® 770 range of repair mortars

Product	Function	Use	Consumption
Alsan® 072 RS	Repair mortar.	1 kg of Alsan® 072 R resin + 9 kg of mineral filler 072 S Or 3.3 kg of Alsan® 072 R resin + 30 kg of mineral filler Alsan® 072 S.	2 kg/m²/mm.

Tools

WATERPROOFING LAYERS

Alsan® 770 TX

Waterproofing of upstands with Alsan® 770 TX.

Rules, advice and tips

- When applying the coating, spread any excess product automatically towards the outside or the top. It will be used for blending into the second coat fresh-on-fresh.
- Visible white areas in fleece reinforcement are evidence of too little material being applied.
- Any fleece overlaps require additional application of liquid resin between fleece layers
- Wear individual protective equipment (glasses, gloves) and make sure the work area is well ventilated.
- Remove the adhesive strip immediately after applying.
- Avoid contact of the cleaning product with skin.

1

Before the start of the waterproofing work, prepare and clean areas of application and mask off application with masking tape.

2

Roll **Alsan® 770 TX** resin onto prepared substrate. Provide sufficient liquid, especially onto vertical surfaces.

Consumption: ~ 1.5 kg/m².

3

Apply the previously cut **Alsan Fleece P** into wet **Alsan® 770 TX** liquid resin.

Roll fleece into liquid resin, removing air bubbles and wrinkles with a roller.

4

Alsan Fleece P must then be immediately covered with a second coat of resin: ~ 1.0 to 1.5 kg/m².

Apply a sufficient quantity of resin also in the delimiting area along the adhesive tape.

Total **Alsan® 770 TX** consumption: ~ 2.5 to 3.0 kg/m².

Alsan® 770

Alsan® 770 waterproofing resins for main areas.

Rules, advice and tips

- When applying the coating, spread any excess product automatically towards the outside or the top. It will be used for blending into the second coat fresh-on-fresh.
- Any fleece overlaps require additional application of liquid resin between fleece layers
- Visible white areas in fleece reinforcement are evidence of too little resin being applied.
- Wear individual protective equipment (glasses, gloves) and make sure the work area is well ventilated.
- Remove the adhesive strip immediately after applying.
- Avoid contact of the cleaning product with skin.

5

Apply a sufficient quantity of **Alsan® 770** resin to ensure proper waterproofing of the surface, approximately: ~ 1.5 kg/m².

Apply the product evenly using a roller.

6

Install **Alsan Fleece P** reinforcement directly into wet liquid resin. Roll fleece into liquid resin, removing air bubbles and wrinkles with roller, as shown in the picture.

7

Apply additional **Alsan® 770** resin over **Alsan Fleece P**.

Consumption: ~ 1.0 to 1.5 kg/m².

8

The following **Alsan Fleece P** may be placed directly in the same manner, without any waiting time. The treated surface may be covered after curing.

Total **Alsan® 770** resin consumption: 2.5 to 3.0 kg/m²

Technical data sheet

Range of Alsan® 770 waterproofing resins for upstands

Product	Function	Use	Consumption
Alsan® 770 TX	Waterproofing resins for upstands and particular areas	Apply with a roller. Incorporated with Alsan Fleece P reinforcement.	2.5 to 3.0 kg/m².

Tools

Range of Alsan® 770 waterproofing resins for main areas

Product	Function	Use	Consumption
Alsan® 770	Waterproofing resin.	Apply with a roller. Incorporated with Alsan Fleece P reinforcement.	2.5 to 3.0 kg/m².
Alsan® 771	Low-odour waterproofing resin.	Apply with a roller. Incorporated with Alsan Fleece P reinforcement.	2.5 to 3.0 kg/m².
Alsan® 770 AB	Spray-on waterproofing resin	Alsan® 770 A+ Alsan® 770 B resins.Use a sprayer then smooth with a roller. Incorporated with Alsan Fleece P reinforcement.	2.5 to 3.0 kg/m².

Tools

WEARING LAYERS

Alsan® 870 RS

Protective coating and wearing layer (self-leveling mortar).

Rules, advice and tips

- **Alsan® 870 RS** self-leveling mortar without catalyst will keep for about a week and must be mixed well before using again.
- Wear individual protective equipment (glasses, gloves) and make sure the work area is well ventilated.
- Remove the adhesive strip immediately after applying.
- Avoid contact of the cleaning product with skin.

1

Components required for preparing **Alsan® 870 RS** self-leveling mortar: **Alsan® 870 R + Alsan® 870 S + catalyst.**

Mix the two first components.

2

After mixing the two first components, add the catalyst.

Mix well.

3

Apply this mix directly to the coated substrate or to the waterproofing layer.

4

Smooth using a trowel…

Rules, advice and tips

- If necessary, sprinkle saturating amounts of natural or coloured quartz **Deco Mix** or decorative flakes **Deco Chips**.

Alsan® 871 RS

Low-odour self-leveling mortar

Alsan® 871 RS low-odour self-leveling mortar is used as a thick coating layer, for outside or inside use, to substrates bearing mechanical stress and for which just a thin waterproofing layer over cracks is sufficient.

Mix the liquid component using a mixer (300 rpm). Pour into a container reserved for the preparation (a clean 30-liter bucket), then add the filler while mixing and continue mixing for about 3 minutes.

Let the content rest for about 5 minutes.

Make sure the entire batch is well mixed.

5

...Or a notched trowel.

Smooth the self-leveling mortar.

6

Once installation of the protective and wearing coat is finished, the surface may be covered after curing.

Technical data sheet

Range of Alsan® 870 RS self-levelling mortars

Product	Funstion	Use	Consumption
Alsan® 870 RS	Self-leveling mortar.	10 kg of Alsan® 870 R resin + 23 kg of Alsan® 870 S.	4.0 kg/m².
Alsan® 871 RS	Low-odour self-leveling mortar.	10 kg of Alsan® 871 R resin + 23 kg of Alsan® 870 S.	4.0 kg/m².

Adding catalyst to Alsan® 870 RS self-leveling mortar

Adding the catalyst and conversion for weight/ volume: 10 g = 15ml								
Product weight (Kg)	% catalyst to be added							
	25°C - 35°C : 0,3 %		15°C - 25°C : 0.6 %		5°C - 15°C : 0.9 %		-5°C - 5°C : 1.2 %	
	g	ml	g	ml	g	ml	g	ml
4	15	22	25	38	40	60	50	75
6	20	30	35	52	60	90	75	115
8	25	38	50	75	75	112	95	145
10	30	45	60	90	90	135	120	180
12	35	52	70	105	110	165	145	220

Adding catalyst to Alsan® 870 RS self-leveling mortar (continued)

Adding the catalyst and conversion for weight/volume: 10 g = 15ml								
Product weight (kg)	% catalyst to be added							
	25°C - 35°C : 0,3 %		15°C - 25°C : 0,6 %		5°C- 15°C : 0,9 %		-5°C - 5°C : 1,2 %	
	g	ml	g	ml	g	ml	g	ml
14	40	60	85	130	125	190	170	255
16	50	75	95	142	145	220	195	295
18	55	85	110	165	165	250	215	325
20	60	90	120	180	180	270	240	360
22	65	100	130	195	200	300	265	400
24	70	110	145	220	215	325	290	435
26	80	120	155	235	235	355	315	475
28	85	130	170	255	250	370	335	505
30	90	140	180	270	270	405	360	540
33	100	150	200	300	300	450	400	600

Tools

FINISH LAYERS

Alsan® 970 F

Finishing layer (pigmented finish).

Rules, advice and tips

- Upstands: immediately remove masking tape.

Alsan® 970 FT

Transparent finish

Alsan® 970 FT is a UV-stable, flexible, non-pigmented and quick-drying dual component resin composed of methyl methacrylate, to be used as a transparent finishing layer over **Alsan® 770** waterproofing systems.

This resin may be used both outside and inside, in new construction work or renovation.

It is applied using a roller for upstands, and a smooth trowel or a roller for main areas.

The resin must be evenly applied over the entire surface requiring treatment.

1

Mask application edges with masking tape.

Apply the finishing coat on the upstands. Remove the adhesive strip immediately after applying.

Consumption: ~ 0.4 kg/m².

2

Apply the product areas using a lambswool roller, trowel or flat-edged squeegee.

Consumption: ~ 0.6 to 0.8 kg/m².

3

Prior to curing, immediately apply decorative **Alsan® Deco Chips** with a hopper spraygun or by hand.

4

Finished surface.
No futher finishing layer required.

The area is accessible after 3 hours and can withstand traffic after one day.

Variant surfacing application

to achieve a required slip resistance and increased abrasion strength.

Pathway coating

Option for extra wearing resistance (eg.: on roadways).

Alsan® 972 F pathway coating may be applied directly over **Alsan® 870 RS** self-leveling mortar, using a smoothing trowel.

Consumption: 3.5 kg/m².

The surface is trafficable after 1 hour and totally resistant after 1 day.

5

Prior to curing of mortar course, broadcast natural or colored kiln-dried quartz aggregate to excess. Grain size selection is dependent upon trafficking requirements:

0.2 - 0.6 mm or
0.4 - 0.8 mm or
0.8 - 1.2 mm.

6

Sweep off excess sand.

7

The resulting surface must be set or coated with a finishing coat, to be selected from available colours.

Technical data sheet

Alsan® 770 range of top coats

Products	Function	Use	Consumption
Alsan® 970 F	Pigmented finish.	Apply with a roller, flat trowel or rubber float.	0.6 to 0.8 kg/m².
Alsan® 970 FT	Transparent finish.	Apply with a roller over the Deco Mix aggregate.	0.6 to 0.8 kg/m².
Alsan® 971 F	Rough finish for markings, pathways.	Apply with a flat trowel or a roller.	0.6 to 2.5 kg/m².
Alsan® 972 F	Very rough surfacing for pathways.	Apply with a flat trowel or a roller.	3.5 kg/m².
Alsan® 973 F	Reflecting finish.	Apply with a roller over Alsan® 178 Primer.	0.6 to 1.0 kg/m².

Colours

- **Alsan® 971 F:** available on request.
- **Alsan® 973 F:** white reflective coat.
- **Alsan® 970 FT:** transparent.
- **Alsan® 970 F:** available on request.
- **Alsan® 972 F:** available on request.

Decorative aspects

Deco Finish
Available RAL colours: 7030 and 7032. Other RAL colours on request.
P. 33

Deco Protect
Available RAL colours: 7030 and 7032. Other RAL colours on request.
P. 33

Deco Structure
Available RAL colours: on request.
P. 33

Deco Finish+
Available RAL colours: 7030 and 7032. Other RAL colours on request.
P. 33

Deco Protect+
Available RAL colours: 7030 and 7032. Other RAL colours on request.
P. 33

Deco Mix
Available in 8 different colour mixes.
P. 33

Tools

SPECIAL APPLICATIONS

Control joints

Waterproofing of control joints using Alsan® 770 TX.

Rules, advice and tips

- When applying the coating, spread any excess product automatically towards the outside or the top.
  It will be used for blending into the second coat fresh-on-fresh.
- Any fleece overlaps require additional application of liquid resin between fleece layers.
- Immediately remove masking tape.
- This process is indicated in the case Of construction or control joints with moderate to light bearing loads. For heavier load-bearing, another technique should be used.
  Under these conditions, contact the Soprema Technical Department.

1

Prior to start of application, prime areas as necessary . Apply masking tape to application edges.

If necessary, apply a primer on the surface as required in the substrate chart with a roller or brush.

2

After primer cured, apply a first layer of **Alsan® 770 TX** resin in a sufficient quantity on the corners and vertical areas, especially where different substrates meet, (~ 1.5 kg/m²).

3

Place the previously cut **Alsan Fleece P** into the fresh resin. Immediately remove any air bubbles using a roller.

When covering a **Alsan Fleece P** with another **Alsan Fleece P** strip, it is necessary to also apply resin between the two fleeces.

4

Alsan Fleece P must then be directly covered with a second layer, applied fresh on fresh.

Consumption: ~ 1.0 to 1.3 kg/m².

Apply a sufficient quantity of resin also in the delimiting area along the adhesive tape.

Total consumption: ~ 2.5 to 2.8 kg/m².

Stair application

Waterproofing of stairs

The following series of pictures illustrates a fully reinforced staircase application.

Rules, advice and tips

- Wear individual protective equipment (glasses, gloves) and make sure the work area is well ventilated.
- Immediately remove masking tape.
- Any fleece overlaps require additional application of liquid resin between fleece layers.
- Avoid contact of the cleaning product with skin.

1

Surface substrate should be properly prepared. Refer to p.30-31.

Apply primer on the substrate. For this step, either **Alsan® 170** or **176** may be used.

It is important to first determine the height of the upstands using a chalk line.

2

Apply the primer to the connection areas using a roller or a brush.

Consumption depends on the quality and type of substrate, approximately: ~ 0.4 and 0.8 kg/m².

3

Apply a sufficient quantity of **Alsan® 770 TX** waterproofing resin (~1,3 kg/m²) then spread it using a roller.

4

Install pre-cut **Alsan Fleece P** reinforcement into wet **Alsan® 770 TX**.

Use the roller to eliminate any wrinkles or air bubbles. Completely saturate the fleece,then apply a second layer, fresh on fresh.

Approximately: ~ 1.0 and 1.5 kg/m².

Technical data sheet

Products intended to specific areas

Product	Function	Use	Consumption
Alsan® 170	Primer for concrete.	Apply with a roller.	0.4 to 0.8 kg/m².
Alsan® 176	Primer for resurfacing concrete.	Viscous, with filler. Apply with a trowel.	0.4 to 0.8 kg/m².
Alsan Fleece P	Reinforcement fleece.	Non-woven polyester, reinforced, placed between the first and second layer of Alsan® 770 TX.	Entire surface.
Alsan® 770 TX	Waterproofing resin for upstands and specific areas.	Apply with a roller. Incorporated with Alsan Fleece P reinforcement.	2.5 to 2.8 kg/m².

Tools

Products to be use on stairs

Product	Function	Use	Consumption
Alsan® 170	Primer for concrete.	Apply with a roller.	0.4 to 0.8 kg/m².
Alsan® 176	Primer for resurfacing concrete.	Viscous, with filler, applied using a trowel	0.4 to 0.8 kg/m².
Alsan Fleece P	Reinforcement Fleece.	Non-woven polyester, reinforced, placed between the first and second layer of Alsan® 770 TX.	Entire surface.
Alsan® 770 TX	Waterproofing resin for upstands and specific areas.	Apply with a roller. Incorporated with Alsan Fleece P reinforcement.	2.5 to 3.0 kg/m².

Tools

SPECIAL APPLICATIONS

Stair application

Rules, advice and tips

- **Alsan® 074**: You must continue mixing until the chemical reaction takes place. Keep the bucket and tools clean.
- **Alsan Fleece P** must be cut prior to using.
- When covering a **Alsan Fleece P** with another strip of fleece, you must also apply a coat of resin between the two fleeces.

5

Alsan Fleece P must then be directly covered with a second layer, applied fresh on fresh: ~1.0 to 1.5 kg/m² for a total consumption of 2.5 to 3.0 kg/m².

6

Allow to cure for 30 minutes prior to wearing surface applications.

7

Use **Alsan® 074** Paste, as a setting bed for the protective metal edge profile installation.

Mix the paste Apply directly to clean and dry waterproofed surface using a trowel or a spatula. Consumption depends on the quality and type of substrate, approximately: ~ 2 kg/m²/mm.

8

Install the metal edge profile, pressing them into wet **Alsan® 074** paste.

Apply material as necessary to the borders of the siding to ensure the required anti-slip safety.

Rules, advice and tips

- **Alsan® 870 RS** self-leveling mortar without catalyst will keep for about a week and must be mixed well before being used again. Mixing must only be done just before using.
- **Alsan® 970 FT** is a UV-stable, flexible, non-pigmented and quick-drying dual component resin, of methyl methacrylate to be used as transparent finishing over **Alsan® 770** waterproofing systems.

9

Apply masking tape to metal edge profiles.

Mix the **Alsan® 870 RS** self-leveling mortar...

10

... and distribute onto horizontal surfaces with a trowel.

Consumption: ~ 3.5 to 4.5 kg/m².

Immediately remove masking tape.

Allow to dry prior to subsequent applications.

11

Apply the **Alsan® 970 F** finishing coat.

Spread it using a roller.

Consumption for total surface: ~ 0.6 to 0.8 kg/m².

Consumption for overlaps and upstands: ~ 0.4 kg/m².

12

The staircase is accessible after ~3 hours and able to withstand heavy traffic after 24 hours.

Technical data sheet

Products to be used on stairs.

Product	Function	Use	Consumption
Alsan® 074	Paste.	Use a spatula to apply the paste. Multiple uses (smooth, straighten, set).	1,5 to 2 kg/m²/mm.
Alsan® 075	Paste with fibres.	Apply paste with a spatula, paste contains fibres for waterproofing hard-to-reach areas.	2 kg/m²/mm.
Edge profile	Providing required anti-slip safety.	Pre-cut and degreased metal edge profile.	/
Alsan® 870 RS	Self-leveling mortar	10 kg Alsan® 870 R + 23 kg Alsan® 870 S.	4,0 kg/m².
Alsan® 871 RS	Low-odour self-leveling mortar.	10 kg of Alsan® 871 R resin + 23 kg Alsan® 870 S.	4,0 kg/m².
Alsan® 970 F	Pigmented finish.	Apply with a roller, a flat trowel or a rubber float.	0,5 to 0,7 kg/m².
Alsan® 970 FT	Transparent finish.	Apply with a roller over Deco Mix.	0,4 tot 0,7 kg/m².
Alsan® 971 F	Rough finishing resin for markings, pathways.	Apply with a roller or flat trowel.	0,6 to 2,5 kg/m².
Alsan® 972 F	Very rough pathway covering.	Apply with a roller or flat trowel.	3,5 to 4,0 kg/m².

Possible decorative aspect on stairs

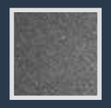
Deco Finish
Available RAL colours: 7030 and 7032. Other RAL colours on request.
P. 33

Deco Protect
Available RAL colours: 7030 and 7032. Other RAL colours on request.
P. 33

Deco Structure
Available RAL colours: on request.
P. 33

Deco Finish+
Available RAL colours: 7030 and 7032. Other RAL colours on request.
P. 33

Deco Protect+
Available RAL colours: 7030 and 7032. Other RAL colours on request.
P. 33



Deco Mix
Available in 8 different colour mixes.
P. 33

Tools

SPECIAL APPLICATIONS

Concave section (optional)

Rules, advice and tips

- **Alsan® 074**: You must continue mixing until the chemical reaction takes place. Keep the mixing bucket and tools clean.
- **Alsan® 870 RS** self-leveling mortar without catalyst will keep for about a week and must be mixed well before using again. Mixing must only be done just before using.
- Wear individual protective equipment (glasses, gloves) and make sure the work area is well ventilated.
- Remove the adhesive strip immediately after applying.
- Avoid contact of the cleaning product with skin.

1

After waterproofing of special areas is completed, apply the **Alsan® 074** paste using a spatula to the back of the pre-cut concave section.

2

Glue the section directly on the waterproofed upstand.

3

Apply **Alsan® 870 RS** self-leveling mortar against the concave section.

4

After treatment is done, it may be covered with an additional finishing layer, if necessary.

Drain application

Rules, advice and tips

- **Alsan Fleece P** must be cut prior to using.
- If necessary, coat the surface with a primer as required in the Substrate Chart.
- When covering a **Alsan Fleece P** with another strip of fleece, you must also apply a coat of resin between the two fleeces.

1

Apply the primer using a roller or a brush.

Consumption, based on roughness: ~ 0.5 kg/m².

Allow primer to cure approximately 20 minutes. Mask off area with tape.

Apply **Alsan® 770 TX** with a brush or roller. (~ 1.5 kg/m²).

2

Install pre-cut **Alsan Fleece P** into wet **Alsan® 770 TX** resin. Use roller to eliminate wrinkles and air bubbles. Completely saturate all fleece, as shown on this side photo.

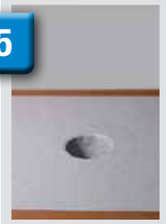
3

Apply additional application of **Alsan® 770 TX** in preparation for target fleece installation. This layer may be applied concurrently with initial fleece installation; there is no waiting period between fleece installations.

Consumption: ~ 1.0 to 1.3 kg/m².

4

5



Apply a sufficient quantity of resin also in the delimiting area along the masking tape.

Remove the adhesive strip immediately after application.

No drain clamping ring installation is subsequently required.

Technical data sheet

Products to be used on concave sections

Product	Function	Use	Consumption
Alsan® 074	Reprofiling and repair mortar.	Use a spatula to apply the paste. Multiple uses (smooth, straighten, set).	2 kg/m²/mm.
Concave section		Pre-cut and degreased metal concave section.	/
Alsan® 870 RS	Self-leveling mortar.	10 kg of Alsan® 870 R resin + 23 kg of Alsan® 870 S	4.0 kg/m².
Finishing layer	Optional.	Depending on the selected finish (p.33).	

Tools

Products to be used for drain application*

Product	Function	Use	Consumption
Alsan® 170	Primer for concrete.	Apply with a roller.	0.4 to 0.8 kg/m².
Alsan Fleece P	Reinforcement Fleece.	Non-woven polyester, reinforced with coating of waterproofing resin	Entire surface.
Alsan® 770 TX	Waterproofing resin for upstands and specific areas.	Apply with a roller. Incorporated with Alsan Fleece P reinforcement.	2.5 to 2.8 kg/m².
Finishing layers	Optional.	Depending on the selected finish (p.33).	

Tools

Metal edge strip-in

Rules, advice and tips

- Prior to application, prepare surface via metal abrasion. Wipe surface with **Alsan® PMMA Cleaner** with a rag in order to thoroughly clean surface. Allow to dry prior to continuing application.
- When applying the coating, spread any excess product automatically towards the outside or the top. It will be used for blending into the second coat fresh–on-fresh.
- Any fleece overlaps require additional application of liquid resin between fleece layers
- When covering a **Alsan Fleece P** with another strip of fleece, you must also apply a coat of resin between the two fleeces.

1

Apply the primer using a roller or a brush.
On this side photo:
applying a primer for metal substrates.
Consumption: ~ 0.1 to 0.2 kg/m².
Evaporation time: ~ 1h (at 20 °C).

2

After the indicated waiting time, apply a first coat of **Alsan® 770 TX**.
Apply a sufficient quantity of resin also in the corners and vertical surfaces, particularly where different substrates meet.
Consumption: ~ 1.3 kg/m².

3

Place the pre-cut **Alsan Fleece P** into the fresh resin. Immediately remove any air bubbles and wrinkles using a roller.

4

Alsan Fleece P may be immediately covered, fresh on fresh, with a second coat.
Consumption: ~ 1.0 to 1.5 kg/m².
Apply a sufficient quantity of coating to the application area along the masking tape.
Total consumption: ~ 2.8 kg/m².

Technical data sheet

Products to be used on waterproofing metallic upstands

Product	Function	Use	Consumption
Alsan® 174	Primer for metallic substrates.	Applied with a roller/brush.	0.1 to 0.2 kg/m².
Alsan Fleece P	Reinforcement Fleece.	Non-woven polyester, reinforced with coating of waterproofing resin.	Entire surface.
Alsan® 770 TX	Waterproofing resin for upstands and specific areas.	Apply with a roller. Incorporated with Alsan Fleece P reinforcement.	2.5 to 3.0 kg/m².

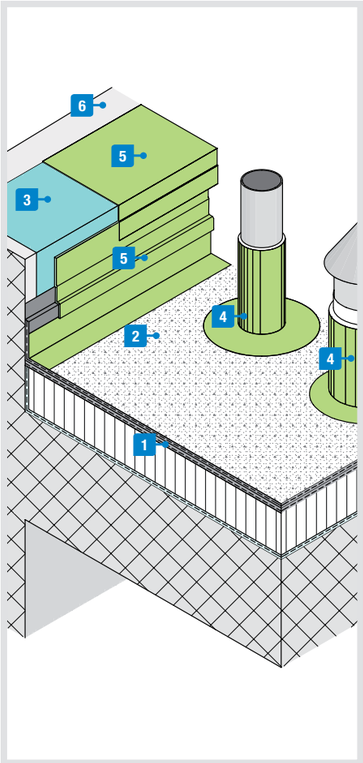
Tools

Index

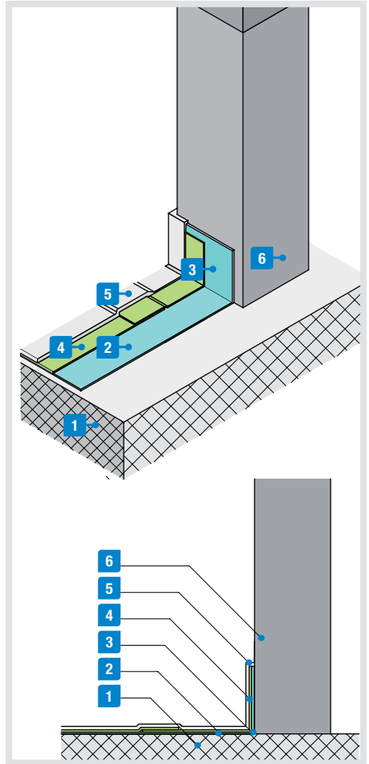
TECHNICAL DRAWINGS

Technical points

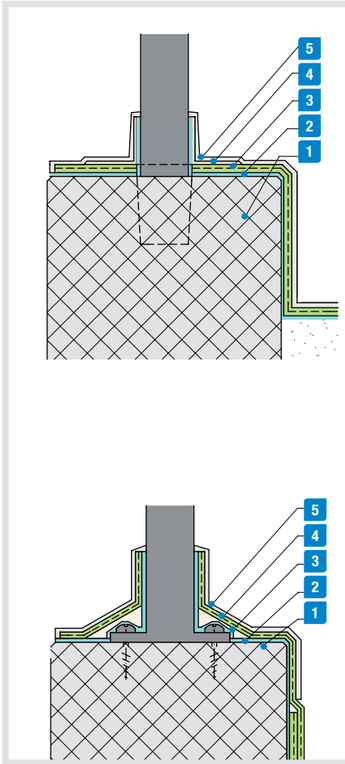
ACROTERION JOINT



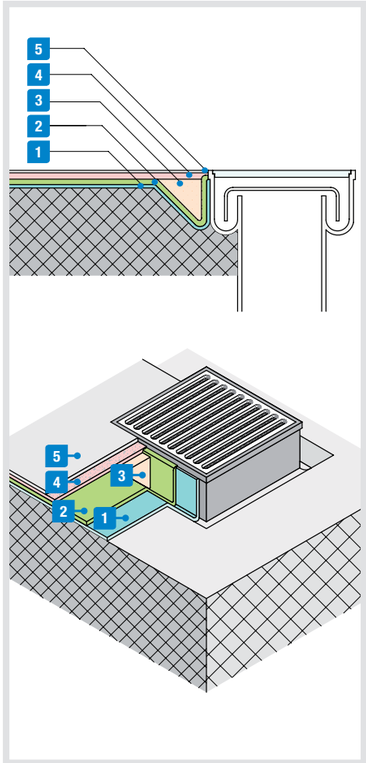
GUARD-RAIL BASE (INSERT)



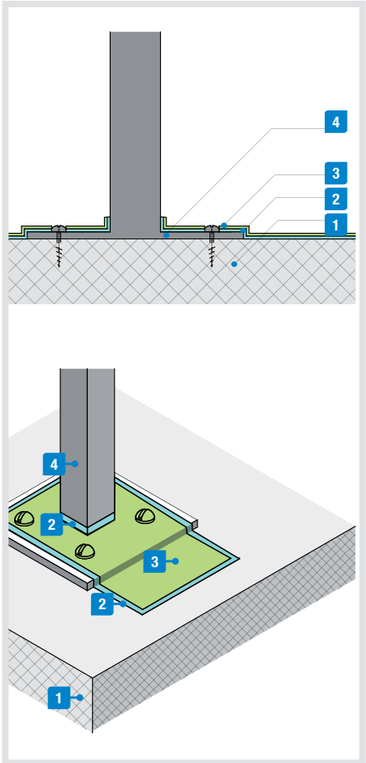
GUARD-RAIL BASE



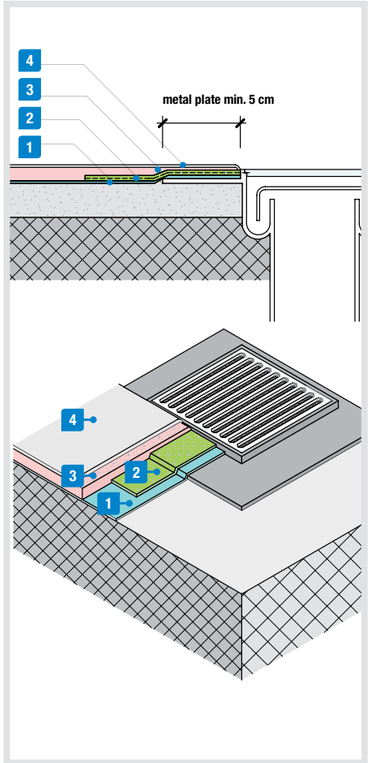
DRAIN BASE CONNECTION WITHOUT METAL PLATE*



GUARD-RAIL BASE WITH SPATULA APPLIED FIBRE-BASED PASTE



DRAIN BASE CONNECTION WITH METAL PLATE



Technical data

Acroterion joint

System
1 Bitumous substrate.
2 Primer Alsan® 171.
3 Primer Alsan® 174.
4 Alsan® 770 TX incorporated with Alsan Fleece P reinforcement.
5 Alsan® 970 F.
6 Metallic upright.

Guard-rail base (insert)

System
1 Concrete substrate.
2 Primer Alsan® 170 or 176.
3 Alsan® 174 for metallic substrates.
4 Alsan® 770 TX incorporated with Alsan Fleece P reinforcement.
5 Alsan® 970 F.
6 Metallic upright.

Guard-rail base

System
1 Concrete substrate.
2 Primer Alsan® 170 or 176 / Alsan® 174 for metallic substrates.
3 Alsan® 770 TX incorporated with Alsan Fleece P reinforcement.
4 Alsan® 075 spreadable paste with fibres.
5 Alsan® 970 F.

Drain base connection

System
1 Primer Alsan® 170 or 176 / Alsan® 174 for metallic substrates.
2 Alsan® 770 TX incorporated with Alsan Fleece P reinforcement.
3 Alsan® 870 RS Self-leveling mortar.
4 Alsan® 870 RS sprinkled with quartz sand.
5 Alsan® 970 F.

Guard-rail base with spatula applied fibre-based paste

System
1 Concrete substrate.
2 Alsan® 170 or 176 / Alsan® 174 for metallic substrates.
3 Alsan® 770 TX incorporated with Alsan Fleece P reinforcement.
4 Metallic upright.

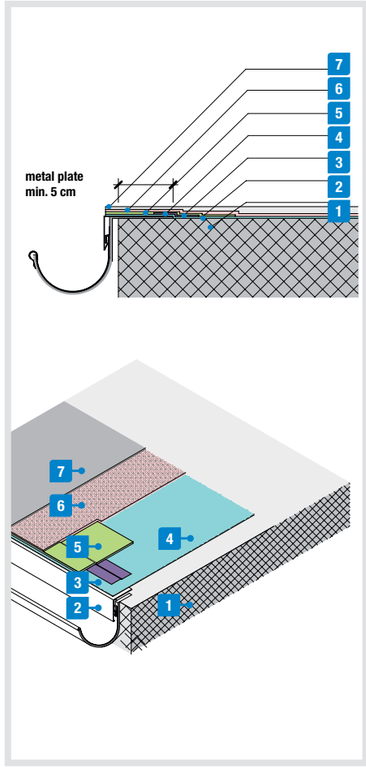
Drain base connection with metal plate

System
1 Primer Alsan® 170 or 176 / Alsan® 174 for metallic substrates.
3 Alsan® 770 TX with Alsan Fleece P.
5 Alsan® 870 RS sprinkled with quartz sand.
5 Alsan® 970 F.

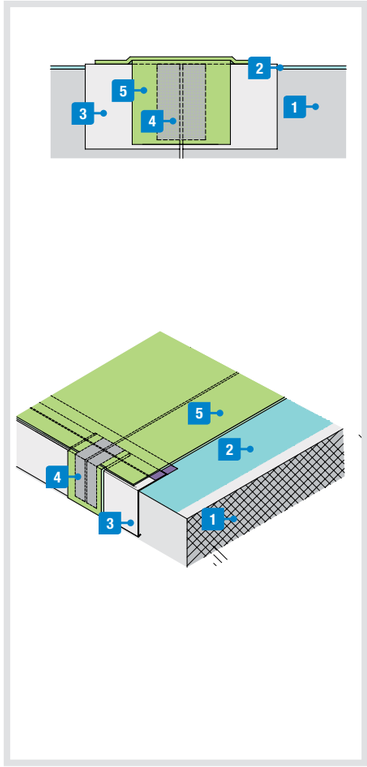
TECHNICAL DRAWINGS

Technical points

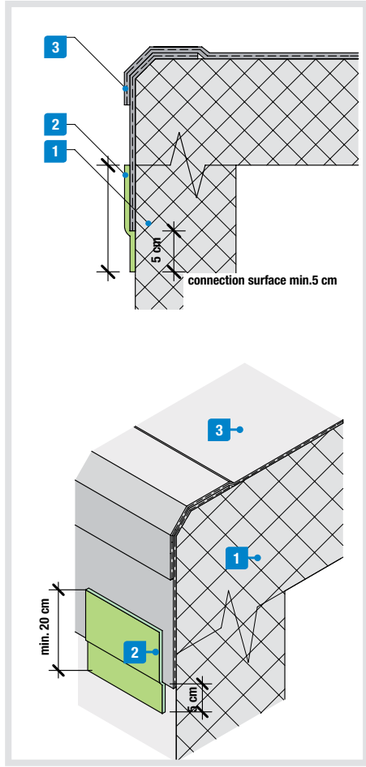
CONNECTION TO STOP SECTION



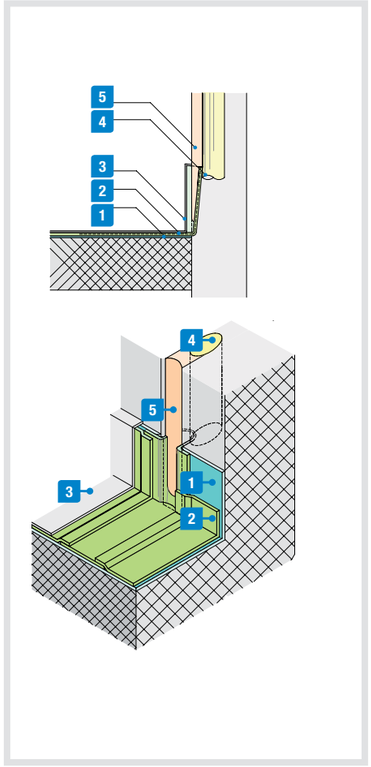
METAL WATERPROOFING EDGE



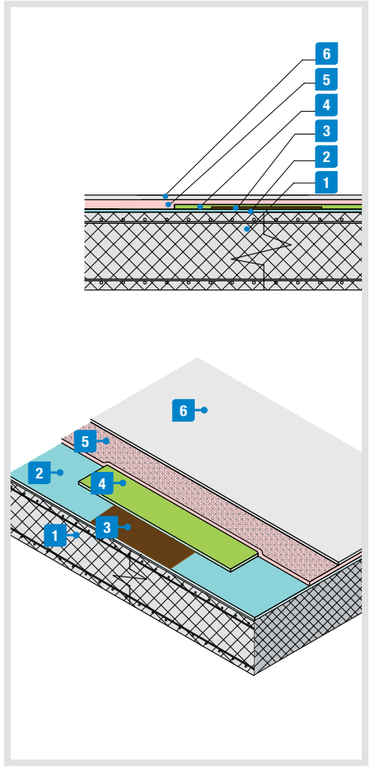
UNDERGROUND EDGE DRIP DETAIL FOR BITUMINOUS WATERPROOFING



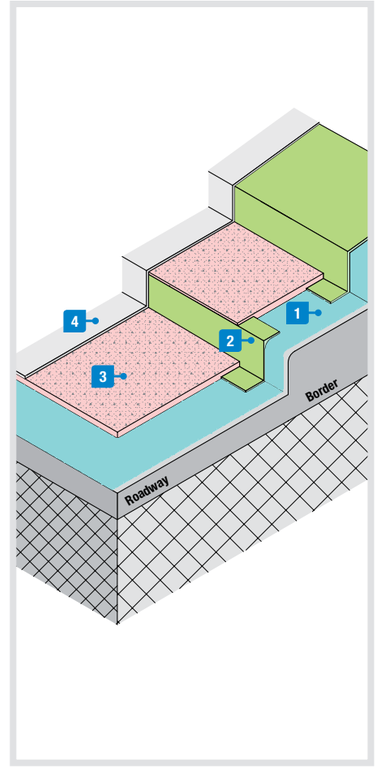
JOINTS WITH CONCRETE APRON



CONSTRUCTION JOINT



TRAFFICABLE CONCRETE RAMP JOINT



Technical data

Connection to stop section

System
1 Concrete substrate.
2 Glued stop section with Alsan® 074 Paste.
3 Alsan® 170 or 176.
4 Alsan® 770 TX with Alsan Fleece P.
5 Alsan® 870 RS sprinkled with quartz sand.
6 Alsan® 970 F.

Metal waterproofing edge

System
1 Concrete substrate.
2 Alsan® 170 or 176.
3 Sheet metal .
4 PVC adhesive strip or Sopravap Stick TS.
5 Alsan® 770 with Alsan Fleece P.

Underground depression for bituminous waterproofing

System
1 Concrete substrate.
2 Alsan® 770 TX with Alsan Fleece P. Remove Contaminats and dust and coat using Alsan® 170 or 176.
3 Bituminous waterproofing.

Joints with concrete apron

System
1 Primer Alsan® 170 or 176 / Alsan® 174 for metallic substrates.
2 Alsan® 770 TX with Alsan Fleece P.
3 Alsan® 970 F (pigmented finish).
4 Round foam cord.
5 Hybrid sealant.

Construction joint

System
1 Concrete substrate.
2 Alsan® 170 or 176.
3 Adhesive separating tape.
4 Alsan® 770 TX with Alsan Fleece P.
5 Alsan® 870 RS sprinkled or not with quartz sand.
6 Alsan® 970 F.

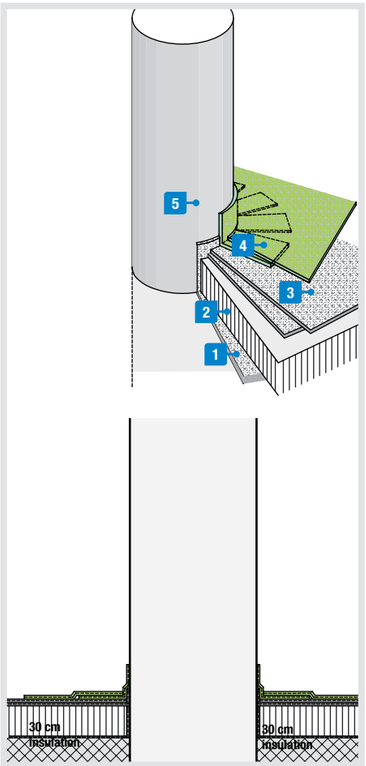
Trafficable concrete ramp joint

System
3 Primer Alsan® 170 or 176.
4 Alsan® 770 TX with Alsan Fleece P.
5 Alsan® 870 RS sprinkled or not with quartz sand.
6 Alsan® 970 F finish layer or Alsan® 972 F (Very rough surfacing for pathways).

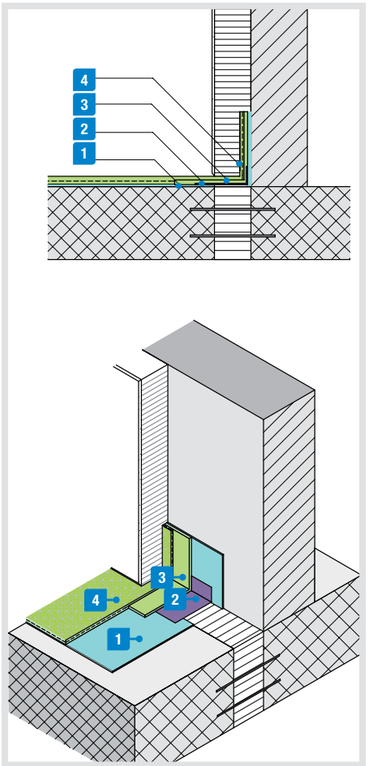
TECHNICAL DRAWINGS

Technical points

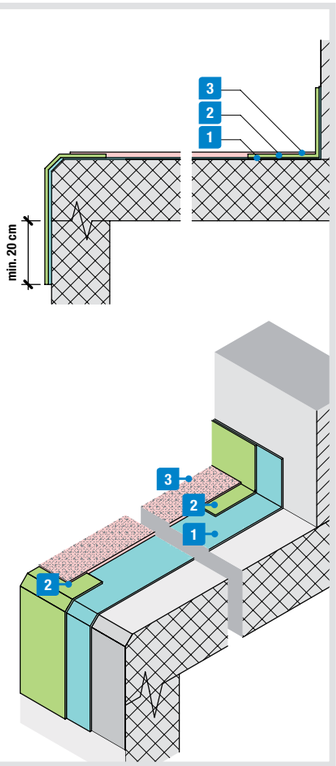
DRAIN/PIPE PENETRATIONS



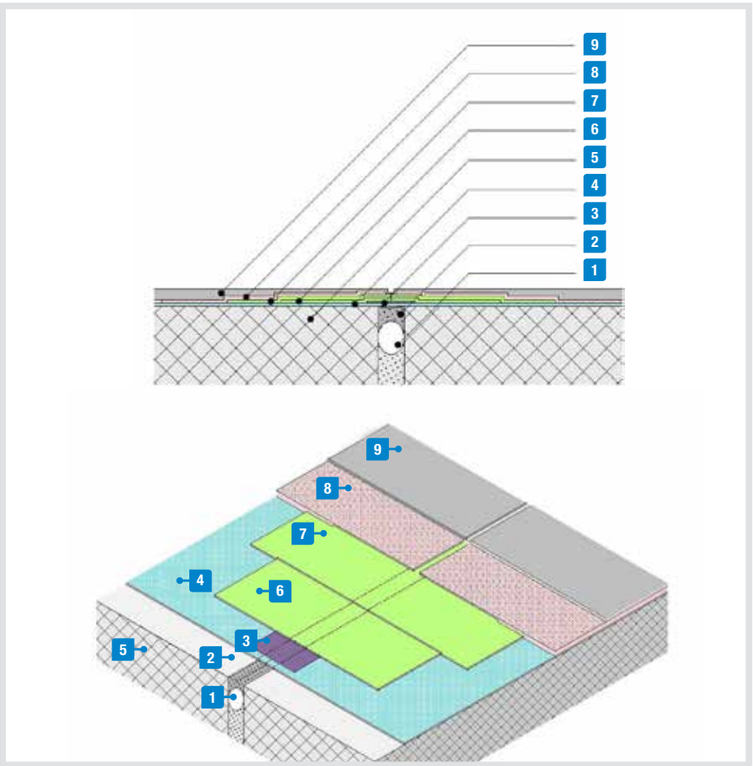
TILE OVERHANG JOINT



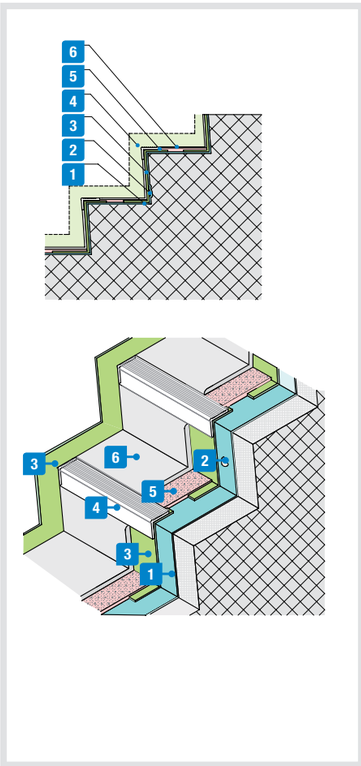
WATERPROOFING OF UPSTANDS AND EDGE DRIP DETAILS



MONOLITHIC EXPANSION JOINT



STAIRS



Technical data

Drain/pipe penetrations

System
1 Vapour barrier
2 Insulation panel.
3 Multilayer bituminous waterproofing system.
4 Alsan® 770 TX incorporated with Alsan Fleece P reinforcement.
5 Degrease the pipe, sand it and coat it if necessary.

Tile overhang joint

System
1 Primer Alsan® 170 or 176.
2 PVC Adhesive strip or Sopravap® Stick TS.
3 Alsan® 770 TX incorporated with Alsan Fleece P reinforcement.
4 Alsan® 770 sprinkled with quartz sand.

Waterproofing of upstands and edge drip details

System
1 Primer Alsan® 170.
2 Alsan® 770 TX incorporated with Alsan Fleece P reinforcement.
3 Alsan® 870 RS sprinkled with quartz sand.

Monolithic expansion joint

Laagsysteem	
1 Foam joint bottom.	6 Alsan® 770 TX incorporated with Alsan Fleece P reinforcement in 26 cm strips.
2 Alsan® 074 Paste.	7 Alsan® 770 TX incorporated with Alsan Fleece P reinforcement in 35 cm strips..
3 Reinforced adhesive separation tape in 5 to 20 cm widths (according to building movement, from 5 to 20 mm).	8 Alsan® 770 for main areas incorporated with Alsan Fleece P reinforcement in 35 cm strips.
4 Alsan 170 (primer).	9 Alsan® 870 RS sprinkled or not with quartz sand.
5 Cioncrete.	

Stairs

System
1 Primer Alsan® 170 or 176 / Alsan® 174 for metallic substrates.
2 Alsan® 074 Paste.
3 Alsan® 770 TX incorporated with Alsan Fleece P reinforcement.
4 Metal edge glued using Alsan® 074.
5 Alsan® 870 RS sprinkled or not with quartz sand.
6 Alsan® 970 F (pigmented finish).

SUBSTRATE CHART

Alsan® 770 waterproofing system substrate chart

Substrate	Preliminary treatment	Primer	Observation
Others			
Concrete	Sand using diamond disc or shot blasting.	Alsan® 170 or Alsan® 176.	Contaminats and dust must be removed. Resistance to traction (relating to adherence) 1.5 N/mm².
Cement mortar	Sand using diamond disc or shot blasting.	Alsan® 170 or Alsan® 176.	Contaminats and dust must be removed. Resistance to traction (relating to adherence) 1.5 N/mm².
Modified synthetic mortar	Sand using diamond disc or shot blasting.	Alsan® 170 or Alsan® 176.	Contaminats and dust must be removed. Resistance to traction (relating to adherence) 1.5 N/mm².
Natural stone	Sand using diamond disc or shot blasting.	Alsan® 170 or Alsan® 176.	Remove unglued and hollow-sounding tiles then resurface. Waterproofing required for full surface.
Tiles	Sand using diamond disc or shot blasting.	Alsan® 170 or Alsan® 176.	Remove unglued and hollow-sounding tiles then resurface. Waterproofing required for full surface.
Mastic asphalt	Buff, sand, shot blast or mill.	Alsan® 172.	
Bituminous coated asphalt	Buff, sand, shot blast or mill.	Alsan® 172.	
GRP Skylights	Sand using ZEC disc, degrease thoroughly.	No primer required.	On old polyester covering, coat using Alsan® 172.
Waterproofing membranes			
SBS bituminous waterproofing	Clean using a metallic brush or high pressure spray	No primer required.	Selecting method to use for preparing the substrate strongly depends on its quality.Perform bond test.
APP bituminous waterproofing	Clean using a metallic brush or high pressure spray	Alsan® 172.	
TPO membrane	Degrease thoroughly. Sand, roughen surface thoroughly	Alsan® 173.	Adherence tests must be performed before treating.
Wood			
Bare	Sand using ZEC disc	Alsan® 170.	Any trace of old paint must be removed. 2 coats of primer if necessary.Pores must be filled.
Treated	Sand using ZEC disc	Alsan® 170.	Any trace of old paint must be removed. 2 coats of primer if necessary.Pores must be filled.
Flat-pressed OSB panels	Remove dirt and dust.	Alsan® 172.	2 coats of primer, if necessary.
Particle board	Sand using ZEC disc	Alsan® 170.	Any trace of old paint must be removed. 2 coats of primer if necessary.Pores must be filled.
Coated multi-layer panels	On request.	On request.	
Glass			
Mineral glass	Degrease thoroughly.	Alsan® 175.	
Acrylic glass	Degrease thoroughly.	No primer required.	Do not sand using ZEC discs or other rough discs. Risk of glass breakage and stress cracks.
Glass mosaic	Degrease thoroughly.	Alsan® 175.	Caution: Glass must not be sanded. Risk of provoking constraint cracks.
Glass bricks	Degrease thoroughly.	Alsan® 175.	Caution: Glass must not be sanded. Risk of provoking constraint cracks.

Substrate	Preliminary treatment	Primer	Observation
Synthetic material			
PVC parts	Degrease thoroughly. Sand using ZEC disc.	No primer required.	
Polyester parts	Degrease thoroughly. Sand using ZEC disc.	No primer required.	Adherence tests recommended on worksite.
EPDM	Degrease thoroughly. Sand using ZEC disc or belt sander.	Alsan® 173.	Adherence tests recommended on worksite.
Polyethylene (PE)	Sanding, roughening required.	On request.	Adherence tests recommended on worksite.
Polypropylene (PP)	Sanding, roughening required.	On request.	Adherence tests recommended on worksite.
Metal			
Copper	Degrease thoroughly. Sand using ZEC disc or belt sander.	No primer required.	
Aluminium	Degrease thoroughly. Sand using ZEC disc or belt sander	No primer required.	
Galvanized steel	Degrease thoroughly.	Alsan® 174.	
Zinc	Degrease thoroughly.	No primer required.	Caution: Zinc is an anti-corrosion layer, do not sand.
Stainless steel (V2a, V4a, etc.)	Sanding,Roughing required using ZEC disc min. 0.5 mm.	No primer required.	
Anodized steel		No primer required.	Sanding only. Adherence tests recommended on worksite.

Special precautions

INFORMATION RELATING TO PRELIMINARY TREATMENT OF SUBSTRATE IS GIVEN ON AN INDICATIVE BASIS THERE ARE MANY VARIETIES OF MATERIALS AVAILABLE, EACH ONE HAVING ITS OWN CHARACTERISTICS. THEREFORE, IT IS NOT POSSIBLE FOR US TO GUARANTEE THIS INFORMATION AND WE ADVISE YOU, IN CASE OF DOUBT, TO UNDERTAKE BOND TESTS DIRECTLY ON THE WORKSITE AND TO CONTACT THE SOPREMA TECHNICAL DEPARTMENT.

Chart of Alsan® 770 liquid waterproofing products

PRODUCTS DE PREPARING ET RÉPARATION				
Product	**Function**	**Use**	**Consumption**	**Packaging**
Alsan® CAT	Catalyst to activate curing.	Mix with PMMA resin.	1 to 6 %.	0.1 kg packs of bulk product in 25 kg cartons.
Alsan® 071	Thickener.	Liquid for increasing resin thixotropy.	Variable.	Can of 1 kg.
Alsan® 072 RS	Reprofiling and repair mortar.	Use a spatula to apply the paste, formultiple uses (smoothing, straightening and setting).	2 kg/m²/mm.	1 kg of Alsan® 072 R resin + 9 kg of sand, already catalyzed 072 S or 3.3 kg Alsan® 072 R resin + 30 R kg of sand, already catalyzed Alsan® 072 S.
Alsan® 074	Reprofiling and repair mortar.	Use a spatula to apply the paste, formultiple uses (smoothing, straightening and setting).	1.5 to 2 kg/m².	Bucket of 10 kg.
Alsan® 075	Micro-fibre infused resin paste.	Paste applied using a spatula / Paste containing fibres for waterproofing hard-to-reach areas.	2 kg/m²/mm.	Bucket of 10 kg.

PRIMERS				
Product	**Function**	**Use**	**Consumption**	**Packaging**
Alsan® 170	Primer for concrete.	Apply with a roller.	0.4 to 0.8 kg/m².	Bucket of 10 kg.
Alsan® 171	Primer mix for upstands.	Apply with a roller.	0.4 to 0.8 kg/m².	- Mix for use in summer: 10 kg Alsan® 171 + 0.30 kg Alsan® CAT + catalyst (3 x 0.1 kg). - Mix for use in winter: 10 kg Alsan® 171 + 0.60 kg Alsan® CAT + catalyst (6 x 0.1 kg).
Alsan® 172	Primer for asphalt.	Apply with a roller.	0.4 to 0.8 kg/m²	Bucket of 10 kg.
Alsan® 173	Primer for TPO.	Apply with a roller.	0.1 to 0.15 kg/m².	Can of 1 kg.
Alsan® 174	Primer for metal.	Apply with a roller.	0.1 to 0.2 kg/m².	Can of 1 kg.
Alsan® 175	Primer for glass.	Apply with a roller.	0,03 to 0,06 kg/m².	Can of 1 kg.
Alsan® 176	Primer for concrete resurfacing.	Viscous, with filler. Apply using a trowel.	0.4 to 0.8 kg/m².	- Mix for use in summer: 10 kg Alsan® 176 + 0.30 kg Alsan® CAT + catalyst (3 x 0.1 kg). - Mix for use in winter: 10 kg Alsan® 176 + 0.60 kg Alsan® CAT + catalyst (6 x 0.1 kg).
Alsan® 178	Primer for Alsan® 973 F finish.	Apply with a roller.	0.4 to 0.8 kg/m².	Bucket of 10 kg.

WATERPROOFING RESINS				
Product	**Function**	**Use**	**Consumption**	**Packaging**
Alsan® 770	Waterproofing resin.	Apply with a roller. Incorporated with fleece reinforcement.	2.5 to 3 kg/m².	Bucket of 10 or 25 kg.
Alsan® 771	Low-odour waterproofing resin.	Apply with a roller. Incorporated with fleece reinforcement.	2.5 to 3 kg/m².	Bucket of 10 or 25 kg.
Alsan® 770 AB	Waterproofing resin.	Alsan® 770 A+ Alsan® 770 B resins. Apply using a sprayer. Incorporated with fleece reinforcement.	2.5 to 3 kg/m².	Container of 120 kg.
Alsan® 770 TX	Waterproofing resin for upstands and special areas.	Apply with a roller. Incorporated with fleece reinforcement.	2.5 to 2.8 kg/m².	Bucket of 5 or 10 kg.

WATERPROOF MORTARS				
Product	**Function**	**Use**	**Consumption**	**Packaging**
Alsan® 870 RS	Self-leveling mortar.	Paste applied using a spatula.	4.0 kg/m².	10 kg of Alsan® 870 R resin + 23 kg of Alsan® 870 S mineral filler.
Alsan® 871 RS	Low-odour self-leveling mortar.	Paste applied using a spatula.	4.0 kg/m².	10 kg of Alsan® 871 R resin + 23 kg of Alsan® 870 S mineral filler.

FINISHING				
Product	**Function**	**Use**	**Consumption**	**Packaging**
Alsan® 970 F	Pigmented finish.	Apply using a roller, flat trowel, or rubber float.	0.6 to 0.8 kg/m².	Bucket of 10 kg.
Alsan® 970 FT	Transparent finish.	Apply using a roller over Deco Mix or quartz sand.	0.6 to 0.8 kg/m².	Bucket of 10 kg.
Alsan® 971 F	Rough finishing for markings, pathways.	Apply using a roller or flat trowel.	0.6 to 2.5 kg/m².	Bucket of 10 kg.
Alsan® 972 F	Very rough pathway covering.	Apply using a roller or flat trowel.	3.5 kg/m².	Bucket of 15 kg.
Alsan® 973 F	Reflecting pigmented finishing resin	Apply using a roller over Alsan® 178 primer.	0.6 to 1.0 kg/m².	Bucket of 10 kg.

FINISHING OPTIONS				
Product	**Function**	**Use**	**Consumption**	**Packaging**
Alsan® Deco Chips	Decorative chips: black, white or grey.	Sprinkle over finishing while coat is still fresh.	Variable.	Bucket of 2 kg.
Alsan® Deco Mix	Mineral filler + Micro-Chips*. Decorative and non-slip finishing option. 8 Colours available on request.	Sprinkle over finishing while coat is still fresh.	Variable.	Bucket of 10 kg.

PRODUCTS COMPLÉMENTAIRES				
Product	**Function**	**Use**	**Consumption**	**Packaging**
Alsan® Silice	Non-slip solution.	Sprinkle to excess, let dry, sweep away excess product.	Variable.	Fine grain: 25 kg bag. Medium grain: 25 kg bag. Large grain: 25 kg bag.
Alsan Fleece P	Reinforcement fleece for Alsan® PMMA systems.	Non-woven polyester, reinforced with waterproofing resins.	Entire surface.	50 ML rolls. Available widths: 0.15 / 0.2 / 0.26 / 0.35 / 0.52 / 0.70 / 1.5 m.

Decorative aspects

Deco Finish

Aspect: smooth.
Finish: Alsan® 970 F pigmented.
Available RAL colours: 7030 and 7032.
Other RAL colours on request.

Deco Protect

Aspect: rough, non-slip
Preparing: natural quartz sand.
Finish: Alsan® 970 F pigmented.
Available RAL colours: 7030 and 7032.
Other RAL colours on request.

Deco Structure

Aspect: mineral parging
Finish: Alsan® 972 F pigmented.
Available RAL colours: on request.

Deco Finish+

Aspect: smooth + **Alsan® Deco Chips** (non-slip effect).
Finish: Alsan® 970 F pigmented + **Alsan® Deco Chips*** (colours: black, white, grey).
Available RAL colours: 7030 and 7032.
Other RAL colours on request.

Deco Protect+

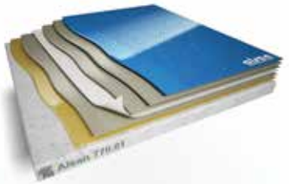
Aspect: rough + **Alsan® Deco Chips** (non-slip).
Preparing: natural quartz sand.
Finish: Alsan® 970 F pigmented + **Alsan® Deco Chips*** (colours: black, white, grey).

Deco Mix

Aspect: Orange peel (non-slip effect).
Preparing: Alsan® 970 F pigmented + **micro-Chips***(colours on request).
Protection: Alsan® 970 FT (transparent finish).

EXAMPLES OF **ALSAN® 770** SYSTEMS

Examples of Alsan® 770 waterproofing systems

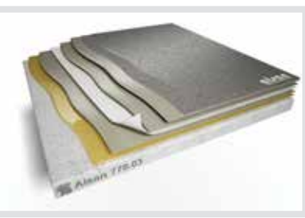


ALSAN® 770.01 DECORATIVE WATERPROOFING SYSTEM

Destinated to: balconies, terraces, parking areas.
Substrate: concrete.
Stress level: normal (with crack bridging).
Waterproofing: Alsan® 770 with **Alsan Fleece P** and **Alsan® 870 RS** wearing coat.
Deco Finish+: smooth aspect + **Alsan® Déco Chips** sprinkled on the still wet finish layer.

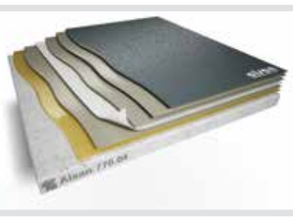
ALSAN® 770.02 NON SLIP DECORATIVE WATERPROOFING SYSTEM

Destinated to: balconies, terraces.
Substrate: concrete.
Stress level: normal (with crack bridging).
Waterproofing: Alsan® 770 with **Alsan Fleece P** and **Alsan® 870 RS** wearing coat.
Deco Protect finish: non-slip.



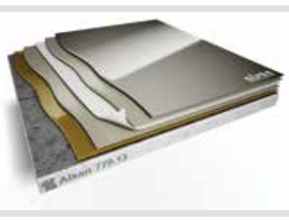
ALSAN® 770.03 NON SLIP AESTHETIC REINFORCED WATERPROOFING SYSTEM

Destinated to: balconies, terraces.
Substrate: concrete.
Stress level: heavy (with crack bridging).
Waterproofing: Alsan® 770 with **Alsan Fleece P** and **Alsan® 870 RS** wearing coat.
Deco Mix finish: Non-slip with coloured sand **or micro- Chips.**



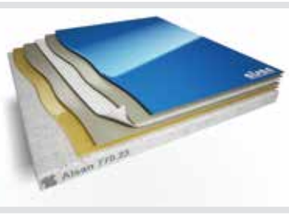
ALSAN® 770.04 THICK REINFORCED STRUCTUREED WATERPROOFING SYSTEM **Destinated to:** balconies, terraces, benches, parking areas.

Substrate: concrete.
Stress level: very heavy (with crack bridging).
Waterproofing: Alsan® 770 with **Alsan Fleece P** and **Alsan® 870 RS** wearing coat.
Deco Structure finish: highly slip resistant.



ALSAN® 770.13 AESTHETIC WATERPROOFING SYSTEM

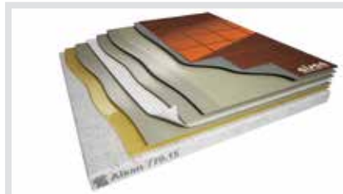
Destinated to: refurbishement of a former waterproofing system.
Substrate: bituminous waterproofing system.
Stress level: normal (with crack bridging).
Waterproofing: Alsan® 770 with **Alsan Fleece P**.
Optional Deco Finish: smooth aspect or 3rd coat of **Alsan® 770**.



ALSAN® 770.23 AESTHETIC WATERPROOFING SYSTEM

Destinated to: special areas.
Substrate: concrete.
Stress level: normal (with crack bridging).
Waterproofing: Alsan® 770 with **Alsan Fleece P**.
Optional Deco Finish: smooth aspect or 3rd coat of **Alsan® 770**.

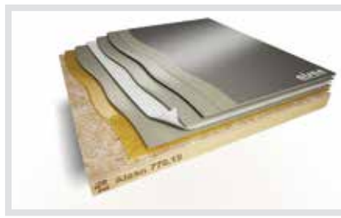
Examples of Alsan® 770 waterproofing systems (continued)



ALSAN® 770.15 REINFORCED WATERPROOFING SYSTEM UNDER TILING

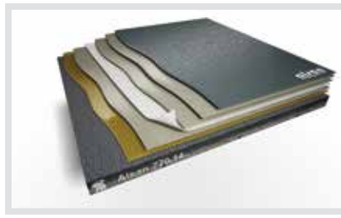
Destinated to: wet rooms, balconies, terraces
Stress level: extreme (with crack bridging).
Waterproofing: Alsan® 770 with **Alsan Fleece P Alsan® 870 RS** wearing coat.
Finish: sand to excess to improve glue bonding**.**

Alsan® 770 alternative systems



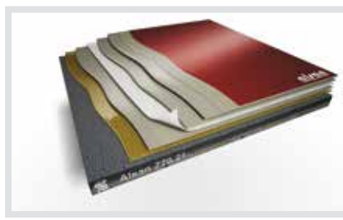
ALSAN® 770.19 NON SLIP REINFORCED WATERPROOFING SYSTEM

Destinated to: balconies, terraces.
Substrate: wood.
Stress level: extreme (with crack bridging).
Waterproofing: Alsan® 770 with **Alsan Fleece P** and **Alsan® 870 RS** wearing coat.
Deco Mix finish: non-slip with coloured sand or **micro-Chips**.



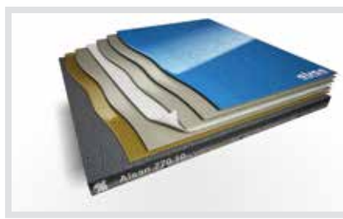
ALSAN® 770.14 THICK REINFORCED STRUCTUREED WATERPROOFING SYSTEM

Destinated to: balconies, terraces, benches, parking areas.
Substrate: asphalt.
Stress level: extreme (with crack bridging).
Waterproofing: Alsan® 770 with **Alsan Fleece P** and **Alsan® 870 RS** wearing coat.
Deco Structure finish: highly slip resistant.



ALSAN® 770.21 NON SLIP DECORATIVE WATERPROOFING SYSTEM

Destinated to: balconies, terraces, benches, parking areas.
Substrate: asphalt.
Stress level: normal (with crack bridging).
Waterproofing: Alsan® 770 with **Alsan Fleece P** and **Alsan® 870 RS** wearing coat.
Deco Protect finish: non-slip.

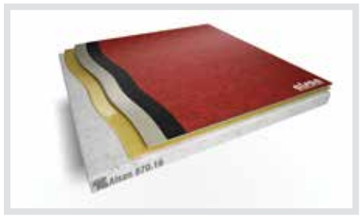


ALSAN® 770.10 DECORATIVE WATERPROOFING SYSTEM

Destinated to: balconies, terraces, benches, parking areas.
Substrate: asphalt.
Stress level: normal (with crack bridging).
Waterproofing: Alsan® 770 with **Alsan Fleece P** and **Alsan® 870 RS** wearing coat.
Deco Finish+: smooth aspect + **Alsan® Déco Chips** sprinkled on the still wet finish layer.

EXAMPLES OF **ALSAN® 870, 970, 973** SYSTEMS

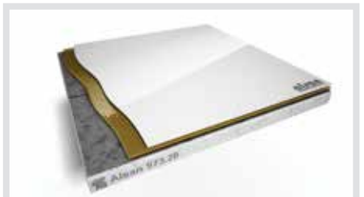
Highly non-slip coating systems



ALSAN® 870.16 AESTHETIC HIGHLY NON-SLIP COATING

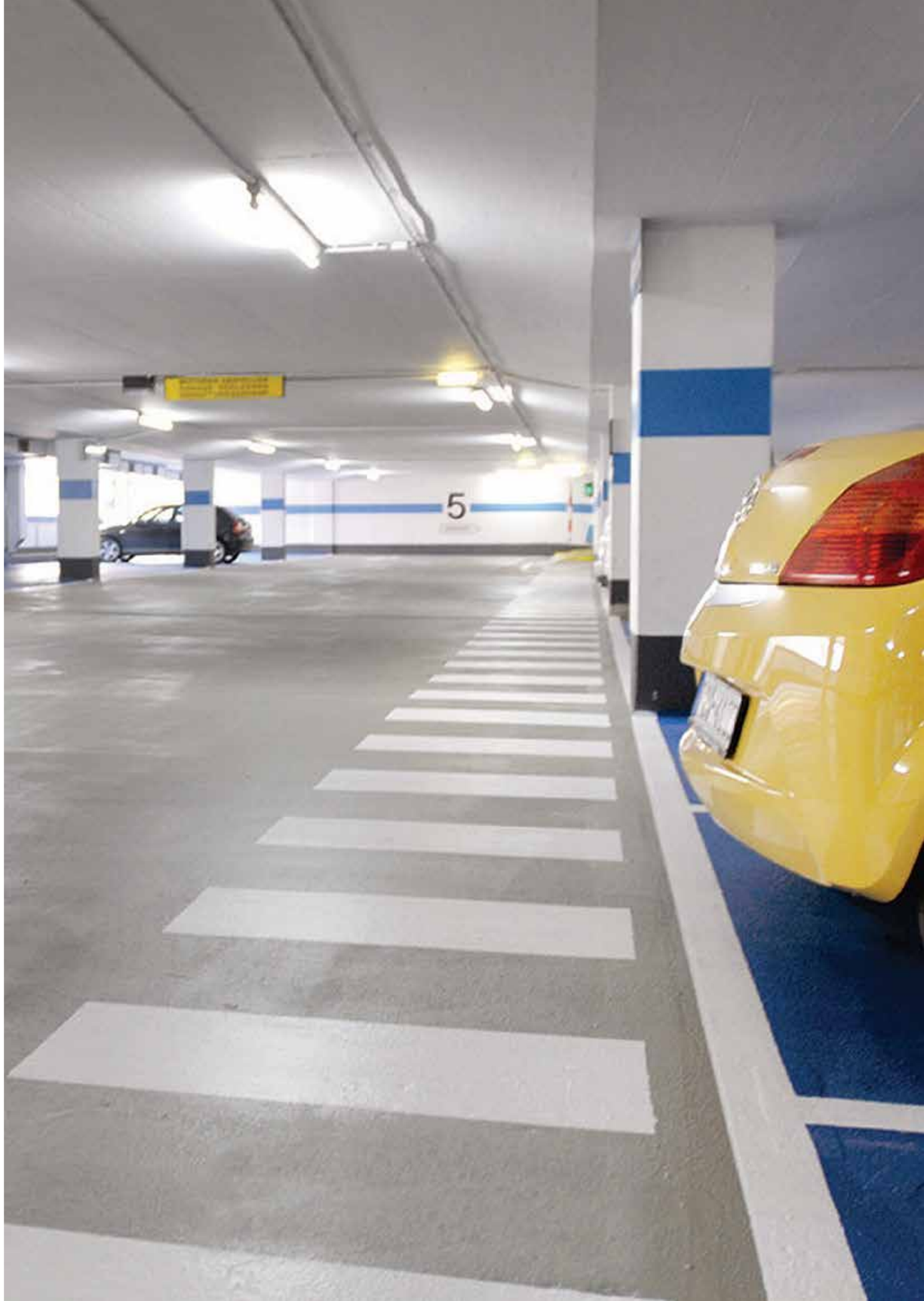
Destinated to: pedestrian areas and terraces
Substrate: concrete.
Stress level: limited.
Wearing layer: Alsan® 870 RS.
Deco Protect finish: Highly slip resistant, **Alsan® 970 F** (pigmented finish).

Cool-Roof coating systems



ALSAN® 973.20 COOL-ROOF COATING SYSTEM FOR BITUMINOUS WATERPROOFING

Destinated to: balconies, terraces.
Substrate: former bituminous waterpoofing system.
Stress level: Minimum (Protection coating).
Deco Finish: Alsan® 973 F Reflective layer (cool-roofing).



INQUIRIES?

Do you have any questions? Do not hesitate to contact us. We are here to guide you and offer an answer to all of your questions.

Would you like to discuss a current or future project ?

Do you have questions about the installation of Alsan® PMMA ? please call us on **+44 (0) 845 194 8728** (UK) / **+353 (0) 1 462 58 87** (Ireland) or send us an email at **info@soprema.co.uk** (UK) / **info@soprema.ie** (Ireland)

Find out more at **www.soprema.co.uk**, **www.soprema.ie** or **www.alsan.com**

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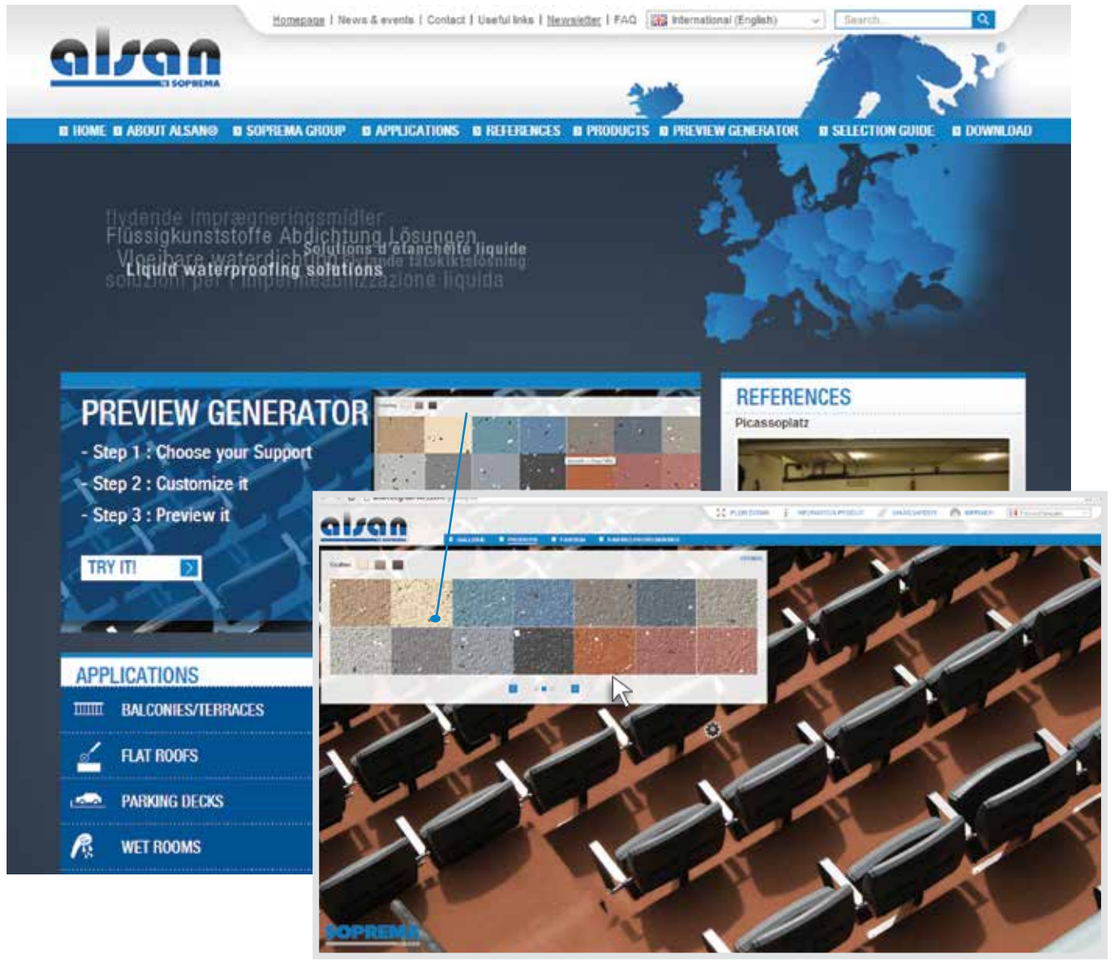

Selection guide

All documentation, technical data sheets and operating procedures are available on:

www.alsan.com

SOPREMA at your service:

Do you have a question about a specific project, the products or application possibilities? Then contact our technical team.

All information can be found on:
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SOPREMA UK

SOPREMA House
Freebournes Road
Witham, Essex, CM8 3UN

Tel : 0330 058 0668
info@soprema.co.uk
www.soprema.co.uk

Alsan 770_DC13048_EN_UK_InstallationGuide