

## ALSAN 176

**ALSAN 176** is a PMMA based, fast-curing, filled scratch-coat primer used as a barrier on highly absorbent mineral substrates in preparation for the later application of ALSAN PMMA resins.

**ALSAN 176** is specifically designed for use on highly porous substrates.

### Material

2-component, fast-curing PMMA based (polymethyl methacrylate) scratch-coat primer, made thixotropic and filled with quartz sand.

### Properties

- Optimum filling of pores and pinholes
- Minimal run-off on vertical surfaces
- Very good adhesion on absorbent substrates
- Fast-curing
- Hydrolysis and alkali resistant
- Solvent free

### Application

**ALSAN 176** is used for pre-treatment (primer and barrier) of absorbent, mineral substrates with large pores and pinholes in preparation for the later application of ALSAN PMMA resins.

### Packaging

Can of 10 kg.

**ALSAN 176** is supplied without ALSAN 070 catalyst.

### Colours

**ALSAN 176** is unpigmented.

### Storage

Store in original sealed packaging in a cool, dry and frost-free place. Avoid warm storage areas (> 30 °C) even for brief periods, for example on site. Consequently the products must not be exposed to direct sunlight or kept in a vehicle. Unopened products have a shelf life of at least 12 months. After opening, reseal the packaging so it is completely airtight.

## Product application

### Temperatures

The product can be applied within the following temperature ranges:

Product	Temperature range in °C		
	Air	Substrate *	Resins
<b>ALSAN 176</b>	+3 to +35	+3 to +50*	+3 to +30

\* The substrate temperature must be at least 3 °C above the dew point during application and curing.

### Moisture

The relative humidity must be  $\leq 90\%$ .

The surface to be coated must be dry (to measure with proper tool; for example Tramex concrete moisture meter).

The surface must be protected from moisture until the coating has hardened.

Substrates, e.g. young concrete, containing residual moisture can be coated provided it has set sufficiently and the substrate is properly prepared.

Please refer to the appropriate application guide for information about correct surface preparation.

## Reaction times & required amounts of catalyst

	<b>ALSAN 176</b> (at 20 °C, 3% catalyst)
Pot life	approx. 10 min.
Rain proof after	approx. 30 min.
Can be walked on / over coated after	approx. 30 min.
Curing time	approx. 2 h.

Higher temperatures or greater proportions of catalyst will reduce reaction times, while lower temperatures and smaller proportions of catalyst will increase reaction times.

The following table indicates the recommended amount of catalyst required to adjust the curing reaction to the temperature.

Substrate temperature in °C, required amount of catalyst in % (reference values)												
-10	-5	+3	5	10	15	20	25	30	35	40	45	50
-	-	6%	6%	4%	4%	2%	2%	2%	2%	1%	1%	1%

## Consumption

### Substrate

Smooth:  
Fine-sandy:  
Rough:

### Consumption

0.8 kg/m<sup>2</sup>  
0.9 kg/m<sup>2</sup>  
1.2 kg/m<sup>2</sup>

## Technical data

Density: 1.37 g/cm<sup>3</sup>

## Application conditions

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### Application equipment / tools

Mixing of the product:  
- Suitable mixer (ex. paint mixer)

Applying of the product:  
- Smoothing trowel

### Substrate preparation

**ALSAN 176** must only be applied to a prepared substrate.

Please refer to the appropriate application guide for information about correct surface preparation.

### Mixing

First stir the tub contents thoroughly. Then add the catalyst whilst stirring at a low speed for 2 minutes. Make sure that all material on the side and base of the pot is mixed in. At temperatures below 10 °C the product should be stirred for 4 minutes as the catalyst will take longer to dissolve.

### Application

Use a smoothing trowel to apply an even, film-forming layer of primer.

Avoid creating any build-up of material.

Once the coating has cured, apply a second coat to cover any defects (bubbles, areas not fully coated).

## Cleaning

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When work is interrupted or completed, clean the tools thoroughly with ALSAN cleaning agent within the pot life of the material (approx. 10 minutes). This can be done with a brush. Do not use the tools again until the cleaning agent has fully evaporated.

Simply immersing the tools in the cleaning agent will not prevent the material from hardening.

## Safety information & risks

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Please refer to the safety data sheet for the relevant product.

## Quality

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**SOPREMA** has always attached the highest importance to Quality Control. For this reason, we operate an independently monitored Quality Assurance System in line with **EN ISO 9001:2008** and **EN ISO 14001:2004**.



## General information

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The above information, in particular the product application information, is based on extensive development and many years of experience. It's provided to the best of our knowledge. However, the wide range of requirements and conditions on site means that it may be necessary for the product to be tested under those conditions to ensure that it is suitable for the intended purpose. For further information and questions, contact **SOPREMA**.

Only the most recent version of the document is valid. We reserve the right to make changes to reflect advances in technology and improvements to our products.



Marnix DERKS  
Technical Director