

ALSAN 178 RS

TECHNICAL DATA SHEET APTDS-E-70-01

DESCRIPTION

ALSAN 178 RS is a fast-curing primer used on damp mineral substrates.

MATERIAL

3-component, fast-reactive, fast-curing PMMA based (polymethyl methacrylate) primer with a mixture of specific cement bound fillers.

PROPERTIES

- can be used on damp mineral substrates (no ponding water)
- easy to apply
- fast-curing
- very good adhesion on absorbent substrates
- resistant to rising moisture
- hydrolysis and alkali resistant
- functions as a moisture barrier

APPLICATION

ALSAN 178 RS is used for the pre-treatment (primer and barrier) of damp mineral substrates (concrete, screed, ...) in preparation of the later application of ALSAN PMMA resins. There may be no presents of ponding or stagnant water.

ALSAN 178 RS also forms a barrier against capillary rising moisture on substrates with high residual moisture contents.

ALSAN 178 RS cannot be used as a moisture barrier below the waterline.

PACKAGING

18,6 kg **ALSAN 178 R** (resin)

10,0 kg **ALSAN 178 S** (cement based filler)

28,6 kg

The set is supplied without ALSAN 070 catalyst.

COLOURS

ALSAN 178 RS is grey

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
ALSAN 178 RS	-5 to +35	0 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 ≤ 90 %.

The surface to be coated can be moist, but there may be no presents of ponding or stagnant water.

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

Substrates, e.g. young, 7 days old concrete, containing residual moisture can be coated provided they have set sufficiently and the substrate is properly prepared.

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REACTION TIMES & REQUIRED AMOUNTS OF CATALYST

	ALSAN 178 RS (at 20 °C, 2% catalyst)
Pot life	approx. 7 min.
Rain proof after	approx. 30 min.
Can be walked on / over coated after	approx. 30 min.
Curing time	approx. 3 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	+0	5	10	15	20	25	30	35	40	45	50
-	-	-	2	1.5	1.2	1	0.7	-	-	-	-	-

CONSUMPTION

Substrate	Consumption
Smooth:	0.5-0.7 kg/m ²
Fine-sandy:	0.5-1.2 kg/m ²

TECHNICAL DATA

Density:

ALSAN 178 RS 1,3 g/cm³

(ALSAN 178 R (resin) 1,0 g/cm³)

(ALSAN 178 S (cement based filler) 3,0 g/cm³)

APPLICATION CONDITIONS

Application equipment / tools

Mixing of the product:

- Suitable mixer (ex. paint mixer)

Applying of the product:

- smoothing trowel
- rubber squeegee
- Sheepskin roller
- brush (only for areas not accessible with the roller)

Substrate preparation

ALSAN 178 RS must only be applied to a prepared substrate.

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

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Mixing

First stir the resin compound ALSAN 178 R thoroughly and mix in the cement bound filler ALSAN 178 S. Stir for at least 5 minutes until a smooth consistency without lumps is achieved. Make sure that all material on the side and base of the pot is mixed in. In order to ensure this, it may be useful to re-pot the mixture and stir again.

Now 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 rubber squeegee to apply an even coat of primer. Immediately work the product well into the surface with the brush.

It is essential that the product is worked well into the surface to ensure good adhesion to the substrate.

CLEANING

When work is interrupted or completed, clean the tools thoroughly with ALSAN 076 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.

SPECIAL INDICATIONS

Hygiene, health and Environment

For more information, please refer to the relevant safety data sheet.

Quality and Environment Management

SOPREMA has always attached the highest importance to the quality of the products and the environment.

For this reason, we operate independently monitored Quality and Environment Assurance Systems in line with **EN ISO 9001** and **EN ISO 14001**.



GENERAL INFORMATION

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.