

ALSAN 970 F

TECHNICAL DATA SHEET APTDS-E-73-01

DESCRIPTION

ALSAN 970 F is used as a wearing layer for ALSAN PMMA systems. It is a high-grade, mechanically durable resin that can be supplied in any colour used for creating patterns or lettering.

Different finishing's (chips, sand ...) can be applied to achieve the desired slip-resistant properties.

MATERIAL

2-component, fast-curing, pigmented PMMA based (polymethyl methacrylate) sealing resin.

PROPERTIES

- Available in most RAL colours
- Can be used to create desired colour patterns (e.g. tiled look, lettering)
- Different finishing's (chips, sand ...) can be applied to create the desired slip resistant properties
- Abrasion-resistant
- Permanently weather-resistant (UV, hydrolysis and alkali resistant)
- Easy and fast application
- Fast-curing
- Solvent-free

APPLICATION

ALSAN 970 F is used as a wearing layer in ALSAN PMMA systems. The surfaces of the system can be designed in any colour or pattern. The appropriate slip resistant properties are achieved by using different finishing's.

PACKAGING

Can of 10 kg

ALSAN 970 F is supplied without ALSAN 070 catalyst.

COLOURS

ALSAN 970 F is available in following colours:

RAL 7030 (stone grey)

RAL 7032 (pebble grey)

Other colours are available on request.

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 970 F	-5 to +35	-5 to +40*	+3 to +30

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

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Moisture

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

The surface to be coated must be dry.

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

REACTION TIMES & REQUIRED AMOUNTS OF CATALYST

	ALSAN 970 F(at 20 °C, 2% catalyst)
Pot life	approx. 15 min.
Rain proof after	approx. 45 min.
Can be walked on / over coated after	approx. 1h .
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	+3	5	10	15	20	25	30	35	40	45	50
-	-	4%	4%	4%	2%	2%	2%	2%	1.5%	1.5%	-	-

CONSUMPTION

Substrate	Consumption
Smooth	0.5 kg/m ²
With finishing (depending on particle size)	0.5 – 0.7 kg/m ²

TECHNICAL DATA

Density: 1.04 – 1.20 g/cm³ (it will vary with the colour)

APPLICATION CONDITIONS

Application equipment / tools

Mixing of the product:

- Suitable mixer (ex. paint mixer)

Applying of the product:

- Finishing roller (sheepskin roller)
- Hard rubber blade (for applying **ALSAN 970 F** to with sand finished surfaces)

Substrate preparation

The **ALSAN 970 F** can be applied either to the ALSAN Primer, the ALSAN 770 waterproofing layer or to the ALSAN 870 RS self-levelling mortar. Before the application of the ALSAN 970 F, the layer underneath has to be hardened and prepared (excess of sand removed).

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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 the finish roller to apply an even layer of the mixed material (approx. 0.6 kg/m²).

Avoid fluctuating layer thicknesses.

Finish design options

Increased slip resistant properties:

Sprinkle dry quartz sand on the freshly applied, still liquid **ALSAN 970 F**.

Depending on the desired roughness, different particle sizes can be used (ex. 0.2 – 0.6 mm or 0.7 – 1.2 mm).

Vacuum off the loose sand once the layer has hardened and apply a final coat of **ALSAN 970 F** with a sheepskin roller to cover the entire area.

For an enhanced appearance the coat of **ALSAN 970 F** can also be applied using a hard rubber blade and smoothed over with the finish roller (depending on the grain size of the finishing approx. 0.5 – 0.7 kg/m²).

Finish design using ALSAN Deco Chips:

Use a hopper gun to apply ALSAN Deco Chips to the freshly applied resin while it is still wet. A maximum of 50 g/m² can be applied, depending on the look you want to achieve.

There should not be any excess chips (surface completely covered with chips) at any point. This could lead to reaction problems.

CLEANING

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

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

QUALITY

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

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.