

ALSAN 870 RS / TXS 10 / TXS 20

TECHNICAL DATA SHEET APTDS-E-72-01

DESCRIPTION

ALSAN 870 RS / TXS 10 / TXS 20 are PMMA based, flexible, self-levelling mortars for functional areas, such as roof terraces, balconies and multi-storey car parks.

MATERIAL

3-component, fast-curing, flexible and filled PMMA based (polymethyl methacrylate) self-levelling mortars

PROPERTIES

- Product which is used as protection layer for the ALSAN 770 waterproofing system, as tick coating and repair mortar
- Used for areas exposed to mechanical loads (pedestrians, vehicles...)
- Cost-efficient coating solution on surfaces without cracks or with only hairline cracks
- Fully bonded to the substrate, therefore no water ingress
- Easy and fast application
- Fast-curing
- Can be applied to almost all substrates (when combined with ALSAN Primers)
- Solvent-free

APPLICATION

ALSAN 870 RS / TXS 10 / TXS 20 self-levelling mortars are used as a protective layer, a thick-film coating or as repair mortar.

- As part of the ALSAN 770 waterproofing systems it protects the waterproofing layer against the impact of traffic on account of its load-distributing effect (protective layer).
- In the case of surfaces subject to mechanical loads and that are either free from cracks or have only hairline cracks, it is used as a thick-film coating without the waterproofing layer.
- It is used as an equalising mortar under ALSAN PMMA systems to level out areas and repair damages up to 10 mm thickness.

ALSAN 870 TXS 10 / TXS 20 are variants of ALSAN 870 RS that are made more viscous / thixotropic to reduce excessive run-off when applied to sloping surfaces.

ALSAN 870 TXS 10 is recommended for gradients between 3% and 10%.

ALSAN 870 TXS 20 is recommended for gradients between 10% and 20%.

PACKAGING

ALSAN 870 RS / TXS 10 / TXS 20 consist of 2 components: base resin ALSAN 870 R and mineral filler ALSAN 870 S.

ALSAN 870 R can of 10 kg

ALSAN 870 S bag of 23 kg

The components are supplied without ALSAN 070 catalyst.

COLOURS

ALSAN 870 RS / TXS 10 / TXS 20 are pebble grey (RAL 7032).

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:

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Product	Temperature range in °C		
	Air	Substrate*	Resins
ALSAN 870 RS / TXS 10 / TXS 20	-5 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 ≤ 90 %.

The surface to be coated must be dry.

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

	ALSAN 870 RS / TXS 10 / TXS 20 (at 20 °C, 2% catalyst)
Pot life	approx. 15 min.
Rain proof after	approx. 30 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
-	-	6%	6%	4%	4%	2%	2%	2%	2%	1%	1%	1%

CONSUMPTION

4 kg/m²

TECHNICAL DATA

ALSAN 870 RS / TXS 10 / TXS 20	1.76 g/cm ³
(ALSAN 072 R (resin))	1.00 g/cm ³
(ALSAN 072 S (mineral filler))	2.64 g/cm ³

APPLICATION CONDITIONS

Application equipment / tools

Mixing of the product:

- Suitable mixer (ex. paint mixer)

Applying of the product:

- Coating trowel with triangular teeth (6 x 6 mm)
- Smoothing trowel

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Substrate preparation

The self-levelling mortar can be applied either to the hardened ALSAN Primer or to the hardened ALSAN 770 waterproofing layer.

Mixing

First stir the base resin (ALSAN 870 R) thoroughly and transfer to a mixing container.

Add the sand (ALSAN 870 S) to the resin while stirring and continue until a smooth consistency is achieved (no lumps).

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 coating trowel with triangular teeth or smoothing trowel to apply an even coat of the mixed **ALSAN 870 RS / TXS 10 / TXS 20** self-levelling mortar.

Preparation for subsequent layers

Fully bonded surfacing (e.g. tiles) and subsequently applied:

While the **ALSAN 870 RS / TXS 10 / TXS 20** self-levelling mortar is still liquid, sprinkle with an excess of quartz sand with a grain between 0.2 and 0.6 mm. Vacuum off the excess/loose sand after the surface has hardened. The sand finishing creates the necessary roughness (key) and absorbency for the subsequent application of the surfacing.

Only use dry quartz sand.

Application as equalising mortar (layer of 3 to 10 mm):

Before adding the catalyst, add an additional amounts of dried quartz sand (grain 1 - 2 or 2 - 3 mm) to the mixed **ALSAN 870 RS / TXS 10 / TXS 20** self-levelling mortar (15 - 20 kg sand to 33 kg of selflevellingmortar).

After the sand and the catalyst have been mixed in and dissolved, apply the mortar using a trowel.

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.