

# ALSAN 770 / ALSAN 770 TX

TECHNICAL DATA SHEET APTDS-E-71-01

## DESCRIPTION

**ALSAN 770 / ALSAN 770 TX** are high-performance, PMMA based resins with low-temperature flexibility. The resins are, used in conjunction with reinforcement fleece, to create seamless, durable and reliable waterproofing membranes. They can also be used to waterproof movement joints.

## MATERIAL

2-component, fast-curing and highly flexible PMMA-based (polymethyl methacrylate) waterproofing resins.

## PROPERTIES

- highly flexible and crack-bridging even at extreme sub-zero temperatures
- permanently weather-resistant
- UV, hydrolysis and alkali resistant
- fully bonded to the substrate, therefore no water ingress
- easy and fast application
- the most complex roof penetrations can be securely incorporated into the seamless waterproofing system
- fast-curing
- can also be applied at sub zero temperatures
- can be applied to almost all substrates, including substrates of variable materials (in combination with the right ALSAN PMMA primer)
- solvent-free
- ALSAN 770 / ALSAN 770 TX have a test certification and an European Technical Approval (ETA) for roof waterproofing system application and for the waterproofing of joints on water-impermeable concrete units.

## APPLICATION

**ALSAN 770** is applied together with ALSAN FLEECE P reinforcement for waterproofing large areas and details as well as for waterproofing of joints on water-impermeable concrete (roofs, car parks, terraces...).

For accessible areas the **ALSAN 770** waterproofing membrane is applied in combination with surfacing provided by finishing products of the Alsan range or other finishes (e.g. tiles).

**ALSAN 770 TX** is a variant that is more viscous / thixotropic to reduce run-off when applied to sloping and vertical surfaces. It is therefore used primarily for the waterproofing of details.

## PACKAGING

- Can of 5 kg **ALSAN 770 TX only**
- Can of 10 or 25 kg **ALSAN 770 / ALSAN 770 TX**

**ALSAN 770 / ALSAN 770 TX** are both supplied without ALSAN 070 catalyst.

## COLOURS

ALSAN 770/ ALSAN 770 TX are available in following colours:

- RAL 7032 (pebble grey)
- RAL 7035 (light grey) ALSAN 770 TX only
- 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:

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Product	Temperature range in °C		
	Air	Substrate*	Resins
ALSAN 770 / ALSAN 770 TX	-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 must be protected from moisture until the coating has hardened.

Ensure good ventilation during application and the curing process.

## REACTION TIMES & REQUIRED AMOUNTS OF CATALYST

	ALSAN 770 /ALSAN 770 TX (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
-	-	4	4	4	2	2	2	2	2	1	1	1

## CONSUMPTION

- As waterproofing membrane underneath finishing: 2,5 – 3,0 kg/m<sup>2</sup>

- As waterproofing membrane 4,0 kg/m<sup>2</sup>

## TECHNICAL DATA

Resistance to wind loads (on concrete):	≥ 50 kPa
Working life:	W3
Climatic zone:	S
Imposed loads:	P4
Roof slope:	S1 - S4
Surface temperature:	TL4 – TH4
Water vapour diffusion:	μ » 5107
	Sd(2 mm ALSAN 770 + ALSAN FLEECE P) » 10,21 m

## APPLICATION CONDITIONS

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## Application equipment / tools

Mixing of the product:

- Suitable mixer (ex. paint mixer)

Applying of the product:

- Sheepskin roller
- Brush (only for areas not accessible with the roller)

## Substrate preparation

**ALSAN 770** 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 5 minutes as the catalyst will take longer to dissolve.

## Application

Use **ALSAN 770** for waterproofing horizontal areas, **ALSAN 770 TX** is used for inclined and vertical surfaces (e.g. upstands on details).Apply a generous and even layer of the mixed material to the entire area (at least 1,5 kg/m<sup>2</sup>).

Place immediately the ALSAN FLEECE P and use a sheepskin roller to remove any air bubbles.

Use a sheepskin roller to embed the fleece straightaway (wet in wet) with a second layer of material (at least 1 – 1,5 kg/m<sup>2</sup>, as required).

Fleece overlaps must be at least 5 cm wide.

## 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.

## APPROVALS & CERTIFICATIONS



ETAG: 005

Year: 2013

**ETA 12/510**

Meets classification Broof (t1) according to EN 13501 part 5. See approval for more information.

## SPECIAL INDICATIONS

### Health, Environment and Safety

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.