



WATERPROOFING
ACCESSORY PRODUCTS

REPAIRS

M I D D L E E A S T

SOPRAPAIR ACR 300

THREE PART SWELLABLE ACRYLIC INJECTION RESIN

TECHNICAL DATA SHEET 180418ME1E

DESCRIPTION

SOPRAPAIR ACR 300 is an elastic, swellable and high technology 3 part acrylic injection resin, specifically designed for the injection and re-injection of concrete joints or for curtain injection by means of injection hoses. SOPRAPAIR ACR 300 jellifies, swells and expands, deeply penetrating into the fine cracks of the concrete with a constant linear development in viscosity allowing for a good control of both injection and re-injection protocols. The high water retention capabilities of SOPRAPAIR ACR 300 prevents self-cracking which provides a longer service life of the product inside dry cracks.

USER APPLICATIONS

- Arresting leakages running through Construction Joints
- Arresting leakages running through Expansion Joints
- Precautionary injection prior to de-watering shutdown

COMPONENTS

- The SOPRAPAIR ACR 300 system comprises 3 components:
- SOPRAPAIR ACR 300 (ACR) acrylic resin
- SOPRAPAIR ACR 300 (CAT) catalyst
- SOPRAPAIR ACR 300 (INT) initiator

1	2	3
ACR acrylic resin	CAT catalyst	INT initiator

INSTALLATION GUIDELINES

- Prior to application two solutions must be prepared:
- **Solution 1:** Mix full container of the (ZL) Acrylic resin (25 kg yields 22.32 litre) with 1.25 kg of (CAT) (1.25 kg yields 1.31 litre)
- **Solution 2:** Mix 23.45 litre of water with the 60 gm of (INT) initiator. (values are for large set pack)
- **Reaction time :** Reaction time is sensitive to the temperatures. It decreases at high temperature and increases at low temperature. Expected reaction time is also associated with the amount of initiator added to the water solution mix as follows:
 - 10 minutes @ 20 °C (60 g of INT)
 - 20 minutes @ 20 °C (30 g of INT)
- In order to obtain an acrylic gel, the 2 solutions must be mixed in a volumetric proportion of 1:1.
- **Application:** SOPRAPAIR ACR 300 is injected into the crack with a 2 component (manual, electric or pneumatic) pump. The machine parts that come into contact with the resin must be made of stainless steel.
- Prior to re-injection; the hoses must be rinsed thoroughly within the permissible reaction time of SOPRAPAIR ACR 300.

RESTRICTIONS & SAFETY PRECAUTIONS

- Protect the product against UV and sun light
- Don't use water that contains a lot of minerals for the preparation of solution 2. These minerals can accelerate the reaction time.
- SOPRAPAIR ACR 300 can be irritating: wear safety glasses and gloves.
- In case of contact with the skin: wash with lots of water and soap. Rinse well afterwards.
- In case of contact with the eyes: rinse the eyes during a few minutes with clean water. Consult a doctor immediately.
- Clean the equipment with water and detergent.
- Cover and contain spilled resin with sand or sawdust and dispose of according the local regulations.

■ SOPREMA may modify the composition and/or utilization of its products without prior notice.
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PACKAGING

SOPRAPAIR ACR 300

SUPPLY DATA	ACR (RESIN)	CAT (CATALYST)	INT (INITIATOR)
Physical state	Liquid	Liquid	Powder
Colour	Purple-Pink	Clear Yellow	White
Pack size	25 kg	1.25 kg	60 g
	10 kg	0.50 kg	24 g

PHYSICAL PROPERTIES

PROPERTIES	INT (INITIATOR)
Elongation @ break	50 %
Water tightness (EN 14068 under pressure)	waterproof @ 10 ⁵ Pa
Compatibility with concrete (EN 12637-1)	Compatible with concrete
Sensitivity for wet / dry cycles (EN 14498 B)	no change in swelling capacity (after 10 wet-dry cycles)
Swelling capacity under water (EN 14498 A)	Constant after 20 days
Increase of volume under water (by conservation EN 14498 B)	290 % (after 20 days) Immersed in water @ 21 °C

PROPERTIES	ACR (RESIN)	CAT (CATALYST)
Viscosity @ 20 °C	48 MPa	22 mPa-s
Density	1.12 g / ml	1.11 g / ml
Active parts	42 % - 48 %	-
Solubility in water	Soluble	Soluble
pH	6.5 - 8	-

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TECHNICAL PROPERTIES

PROPERTIES	FULL COMPOSITION
Water tightness	$\geq 2 \times 10^5$ Pa
Workability - Viscosity	≤ 60 MPa.s
Corrosion behaviour	No corrosive effect
Durability - sensitivity to water	The expansion reaches a constant level
Durability - sensitivity to wet-drying cycles	no modification of expansion ratio
Compatibility with concrete	Pass
Durability - sensitivity to water	The expansion reaches a constant level
Dangerous substances	Complies with 5.4
Expansion ratio & evolution by water storage	Volume change: 290 %

(All values are nominal)

SUSTAINABILITY, HEALTH & ENVIRONMENT

All our activities & growth target sustainable development to minimize the impact on the environment. SOPRAPAIR ACR 300 does not contain any substances that might be detrimental to health or to the environment and complies with generally accepted health standards. Please refer to the product's Safety Data Sheet for more information.

STORAGE & HANDLING

SOPRAPAIR ACR 300 should be stored away from the source of ignition. Store between 10 °C and 30°C. Adequate ventilation has to be ensured when applying the product in an enclosed area. Wear necessary Personal Protective Equipment. All containers should be kept tightly closed, away from fire or open flame. Partly used material should be placed in a sealed container and stored in a well-ventilated area.

SHELF LIFE

- 9 months from date of production
- Use instantly after mixing
- Open cans have no shelf life

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