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REYNCHEMIE NV/SA

RC ACRYPLAST

MODIFIED STYRENE-BUTADIENE POLYMER FOR DURABLE AND WATER-RESISTANT CEMENT- AND LIME-BASED MORTARS

Waterproofing | Concrete repair | Additives for mortar and concrete

ADVANTAGES OF RC ACRYPLAST

- ✓ Improves the adhesion of mortars to mineral substrates.
- ✓ Improves the mechanical strength and abrasion resistance of mortars and concrete.
- ✓ Reduces water penetration and increases water resistance.
- ✓ Improves the workability and flexibility of mineral mortars.
- ✓ Increases durability and freeze/thaw resistance.
- ✓ Suitable for waterproof mortar systems and contributes to improved resistance to moisture exposure.

Description

RC ACRYPLAST is a water-based polymer dispersion based on modified styrene-butadiene (SBR), developed as an additive for cement- and lime-based mortars, concrete and other mineral mixtures. It improves the adhesion, mechanical properties, workability and flexibility of mineral mortars and increases their resistance to water penetration and freeze/thaw exposure.

RC ACRYPLAST therefore contributes to improved durability of cement- and lime-based applications and is particularly suitable for the preparation of water-resistant and waterproof mortars.

Properties

- Water-based polymer dispersion based on modified styrene-butadiene (SBR).
- Suitable for cement- and lime-based mortars, concrete and mineral mixtures.
- Improves the cohesion and adhesion of mineral mortars to mineral substrates.
- Increases the mechanical strength and abrasion resistance of mortars and concrete.
- Reduces capillary water absorption and increases resistance to water penetration.
- Improves the workability and flexibility of mineral mortars.
- Increases resistance to freeze/thaw exposure and contributes to increased durability.
- Suitable for the preparation of water-resistant and waterproof mortar systems.

Area of application

- Concrete repair and repair mortars for restoring and protecting concrete and mineral substrates.
- Water-resistant and waterproof mortars for basements, pits, reservoirs and other moisture-exposed applications.
- Bonding coats and bonding bridges between existing and new concrete, cement or mortar layers.
- Cement- and lime-based mortars for various construction and renovation applications where improved adhesion, mechanical strength and durability are required.
- Jointing mortars for interior and exterior applications, with improved mechanical strength, water resistance and durability.

Application instructions

Mixing

Pre-mix RC ACRYPLAST with the prescribed mixing water. Add part of the mixing solution to the mixer. Gradually add the dry mixture of cement/lime and sand while mixing slowly. Gradually add the remaining mixing solution until the required consistency is achieved.

Mix thoroughly until a homogeneous, smooth and lump-free mixture is obtained.

Mixing ratios

The mixing ratios below are indicative and are expressed by volume. The final amount of water may vary depending on the moisture content, grading and properties of the sand and binder used. Adjust the amount of water to achieve the required workability.

Application	Cement Lime	Sand	RC ACRYPLAST	Water
Bonding/key coat before rendering *Apply directly to the substrate as a bonding bridge.*	1 part	1 part (0-2 mm)	1 part	1 part
Cement render / general mortar	1 part	2 parts (0-4 mm)	1 part	3 parts
Repair mortar *For filling holes, finishing coats and repair work.*	1 part	3 parts (0-6 mm)	1 part	1 part
Jointing mortar (Masonry, exterior joints) *RC ACRYPLAST improves the flexibility and water resistance of the joint.*	1 part	3 parts (0-2 mm)	0.5-1 part	1-2 parts
Bonding/key coat for waterproofing (1st coat) *Brush-applied cement slurry providing mechanical anchorage before the waterproofing mortar.*	1 part *(cement)*	—	1 part	1 part
Waterproofing mortar for basements (2nd + 3rd coat) *Total thickness of 10–15 mm, always applied in at least two coats to help prevent shrinkage cracking and leakage.*	1 part *(cement)*	1 part (0-1 mm)	0.5 part	0.5 part

Technical characteristics

Appearance	Liquid
Solubility	In water
Colour	White
Density	1.01 kg/dm^3
pH	8,5 - 9,5
Solids content	45% ± 1
Viscosity	<300 cps
Film formation	Between 5 °C and 10 °C

Security

Before use, consult the latest Safety Data Sheet (SDS) for additional information regarding the product and its safe use.

Cleaning of equipment

Clean with water after use.

Storage / Shelf life

- Store frost-free. Avoid storage at temperatures >30 °C.
- Up to 2 **years** after production in the original unopened packaging.

Packaging

5 litres (art. no. 100103)

10 litres (art. no. 100100)

25 litres (art. no. 100101)

Photos