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RC SANISEL

SLIGHTLY WATER-REPELLENT AND SALT-BUFFERING SUB-RENDER FOR MASONRY THAT HAS DETERIORATED DUE TO SALTS, SALPETER OR MOISTURE

In accordance with the applications according to DTU 26.1

Waterproofing



ADVANTAGES OF RC SANISEL

- ✓ Resistant to salts: sulfates, chlorides, nitrates, etc.
- ✓ Facilitates the fast evaporation of moisture
- ✓ Composed of hydrated lime with specific sulfate-resistant binder
- ✓ Suitable for historic monuments
- ✓ Vapour-permeable and slightly water-repellent

Description

RC SANISEL is a remediating and salt-buffering mortar formulated on the basis of natural lime for plastering of interior and exterior walls affected by salts and moisture.

RC SANISEL conforms to DTU 26.1.

Substrate / Area of application

- Old masonry (brick, natural stone) with a weak masonry and/or joint mortar (DTU 26.1) and affected by salts or moisture;
- For the repair of masonry in underground spaces;
- As a dehumidifying plaster in cases where salt efflorescence occurs.

Application instructions

Preparation of the substrate:

- Remove the damp or affected plaster at least 70 to 100 cm above the moisture marks.
- Remove the joints (over a depth of about 2-3 cm).
- Systematically dry clean without water.
- Treat rising damp with RC DRYGEL 80. Let masonry that is saturated with water dry before applying the plaster.
- Galvanized metallic reinforcement may be required depending on the nature and state of the masonry.

Preparation of the product:

- Water dosage: 5,25 to 5,75 liters per bag of 25 kg. Slowly add the powder to the water while mixing.
- Mixing time with the mixer: 5 minutes.
- Mixing time with the concrete mixer: 5 to 7 minutes.

Application:

- First fill the joints and then, as soon as the joints have hardened, apply RC SANISEL with a minimum thickness of 0,5 cm. This layer is combed and not polished.
- After 4 to 5 hours (or depending on the temperature, even less) finish with RC SANISEL to a minimum layer thickness of 2 cm. A layer thickness of 3 cm is desirable at high concentrations of nitrates.
- The plaster must be leveled and pressed with a serrated row. Finishing is done with a flat trowel.

Finish:

- Waiting time for coating of RC SANISEL: minimum 7 days.
- RC SANISEL can be finished with RC CALCOFIN 100, RC CALCOLISS 300, RC SILOXCOAT or RC CALCO.

Please note: this plaster must remain at least 5 cm above the waterproofing layer in the wall. There should be no bridging between this patch and the floor/ground level.

Consumption

For a thickness of 2 cm: 20 ± 22 kg/m^2.

Technical information

PRODUCT IDENTIFICATION DATA	
Mortar type, EN-998-1	R
Appearance	Powder
Maximum granulometry, EN 933-1	1,4 mm
Visible density of the hardened mortar, EN 1015-10	1300 kg/m^3

APPLICATION DATA OF THE PRODUCT (at +20°C and 50% r.h.)	
Mixing water	21-22%
Consistency of the fresh mortar, EN 1015-3	160-170 mm
Visible density of the fresh mortar, EN 1015-6	1400 kg/m^3
Permitted operating temperature	From +5°C to +30°C
Processing time of the fresh mortar, EN 1015-9	60 minutes
Minimum thickness that can be applied	> 20 mm
Maximum thickness that can be applied per layer	30 mm

FINAL PERFORMANCE (according to the requirements of EN-standard 998-1)	
Compressive strength, EN 1015-11 (after 28 days)	≤ 5 (cat. CS II) N/mm^2
Bond strength to substrate, EN 1015-12	1,1 N/mm^2, break method: (FP)=B
Water absorption by capillarity, EN 1015-18	1,4 kg/m^2 (24h) (water penetration ≤ 5 mm)
Water vapor permeability, EN 1015-19	8 µ
Thermal conductivity ($\lambda_{10, dry}$), EN 1745	0,27 (Value table W/m◦K)
Salt resistance	> 40 days
Fire class, EN 13501-1	A1

OTHER PROPERTIES CONFORMING TO WTA (internal tests based on standardized procedures)	
Entrapped air (EN 1015-7)	> 25%
Water binding capacity	Ca. 90 %
Ratio β_d/β_{bz}	< 3
Salt resistance	> 40 days (required: > 10 days)

All of the above-mentioned values are average results of standardized laboratory trials.

Security

For more information, please refer to the most recent safety data sheet.

Remarks

- Product intended for professionals.
- Protect fresh and new exterior plaster against water, wind, sun and dust rain by means of a tarpaulin or the like.
- Do not apply on a frozen surface or if there is a risk of frost.
- Minimum usage temperature: +5°C to +30°C. At higher temperatures, specific measures must be taken.
- RC SANISEL does not prevent capillary rise but does put a brake on salt migration to the surface of the mortar. For durable results, measures must be taken to prevent capillary rise (e.g. treatment using RC DRYGEL 80).

Equipment

Manual application:	Trowel/slat/trowel	
Mechanical application:	Mortar pump	Pump pressure: 8 - 10 bar
Funnel gun:	Air flow: 60 m^3/uur	Air pressure: 4 - 8 bar

Cleaning of equipment

The tools can be cleaned with water when the product is fresh; if the product has hardened, it must be removed mechanically.

Storage / Shelf life

12 months in the original packaging, in a covered, dry place, at a temperature between +5°C and +30°C. The product is sensitive to moisture.

Packaging

25 kg bag (item no. 16618)

Photos



Legal Notes
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