

## RC SANISEL

### **LIGHTWEIGHT, 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
- ✓ Waterproof

#### Description

RC SANISEL is a remediating and salt-buffering mortar formulated on the basis of natural hydraulic 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 with a consumption of 4 to 5 k /m<sup>2</sup>. 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 CALCOLISS 300 (lime filler based on air-lime), RC SILICA PAINT (silicate paint), RC SILOXCOAT (siloxane paint) or RC CALCO (lime paint).

*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:  $20 \pm 22 \text{ kg/m}^2$ .

## 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 <sup>3</sup>

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 <sup>3</sup>
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)	$\leq 5$ (cat. CS II) N/mm <sup>2</sup>
Bond strength to substrate, EN 1015-12	1,1 N/mm <sup>2</sup> , break method: (FP)=B
Water absorption by capillarity, EN 1015-18	1,4 kg/m <sup>2</sup> (24h) (water penetration $\leq 5$ mm)
Water vapor permeability, EN 1015-19	8 $\mu$
Thermal conductivity ( $\lambda_{10, \text{dry}}$ ), EN 1745	0,27 (Value table W/m <sup>2</sup> 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 $\beta_d/\beta_{bz}$	< 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 <sup>3</sup> /uur	Air pressure: 4 - 8 bar

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## Cleaning of equipment

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

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## Storage / Shelf life

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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.

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## Packaging

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25 kg bag (item no. 16618).

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## Photos

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### Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of Reynchemie products, are given in good faith based on Reynchemie current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Reynchemie recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Reynchemie reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.