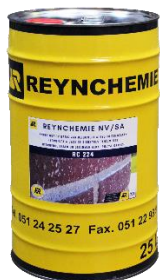


## RC 224

### HYDROPHOBIC PRODUCT BASED ON OLIGOMER ALKYL POLYSILOXANE (10%)

Test report: Royal Institute for Cultural Heritage (Brussels)

#### Water-resistant surface treatment



#### ADVANTAGES OF RC 224

- ✓ Prevents salt efflorescence and frost damage
- ✓ Does not change the aspect of the substrate
- ✓ Perfectly water vapor permeable
- ✓ Protects against acid rain and pollution
- ✓ UV- and alkali-resistant
- ✓ Good pearl effect

#### Description

RC 224 is a colorless water-repellent product for the treatment of mineral building materials. RC 224 is UV- and alkali-resistant without changing the aspect of the substrate and with the retention of the water vapor permeability. After the application of RC 224, the active product undergoes a chemical conversion: it becomes a polysiloxane and gives a permanent water-repellent and good pearl effect.

RC 224 is ready to use and is based on a high-quality siloxane (10% active ingredients) with a high penetration capacity. RC 224 has been developed for making bricks, concrete blocks, cellular concrete and all porous rocks (white limestone) water-repellent, which constantly suffer the adverse influence of rain.

#### Properties

- Reduces water absorption and indoor humidity;
- Protects cleaned facades against soiling;
- Prevents salt efflorescences and frost damage;
- Reduces moss formation;
- Perfectly water vapor permeable;
- Protects against acid rain.

#### Substrate

When applying RC 224, the substrate must be clean, healthy and dry as stated in §5.4 of TV 224 of the BBRI. We remind you that cleaning is recommended before treating old soiled surfaces (see cleaning techniques in TV 197 of the BBRI and our chapter on cleaning products). After cleaning, the substrate must be rinsed until it is completely dust-free.

Bad joints, cracks or cavities in the rock must first be repaired. However, one must wait 2 days before the impregnation of fresh jointing can be started. Pulverized materials must first be treated with RC STONE REINFORCER in order to rebuild the mineral structure. After treatment with RC STONE REINFORCER, wait at least 14 days before applying RC 224.

#### Application instructions

The treatment is preferably carried out by irrigating the substrate under low pressure, so that no spraying of the product takes place. The treatment is carried out from bottom to top with horizontal back and forth movements, so that a run-off of approximately 20 cm is achieved. Two treatments must be performed wet-in-wet.

The use of a back spray is recommended or an electric pump designed for this purpose that ensures that the product flows over the surface at constant pressure.

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## Consumption

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Highly dependent on the porosity of the substrate: from 0,2 to 1,5 l/m<sup>2</sup>. For a correct evaluation, absorption tests must be carried out with the Karsten pipe (TV n° 224 of the BBRI).

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## Technical information

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Basis:	(Alkylalkoxy)siloxane
Active ingredients:	10% active ingredients
Solvent:	Low aromatic hydrocarbon
Color:	Colorless
Color when applied:	Invisible
Odor:	Solvent odor
Resistance against alkalis:	Very good
Density:	0,80 g/cm <sup>3</sup> ± 0,02
Flash point:	> 39°C
Water-repellent:	More than 10 years

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## Security

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RC 224 contains organic solvents and is flammable. Must be kept in tightly closed packaging. Due to the fire hazard, smoking is prohibited during spraying. Skin contact should be avoided, it is recommended to wear a mouth mask and gloves. For more information, consult the most recent safety data sheet.

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## Remarks

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- All glass elements must be protected.
  - RC 224 causes irreversible staining on bluestone and non-porous surfaces.
  - RC 224 is not crack-bridging.
  - Only suitable for vertical applications.
  - If salts are present on the surface, it is recommended to neutralize these salts with RC SULFASTOP ZB or RC NITRABLOCK.
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## Cleaning of equipment

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Immediately after use with white spirit.

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## Storage / Shelf life

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- Store only in the original package in a cool, well-ventilated place. Opened packages must be carefully sealed and stored upright to prevent leakage.
  - 1 year after production in the original sealed package.
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## Packaging

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10 liters (item no. 210031), 25 liters (item no. 21003) or 200 liters (item no. 210032).

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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.