

## RC 805 ECO

### SOLVENT-FREE WATER-REPELLENT BASED ON OLIGOMERIC SILOXANES (5 POLYMERS)

Test report: Royal Institute for Cultural Heritage (Brussels)

#### Water-resistant surface treatment



#### ADVANTAGES OF RC 805 ECO

- ✓ Very good penetration into absorbent and very alkaline materials
- ✓ Lets the surface breathe and is not film-forming
- ✓ Prevents salt efflorescence and frost damage
- ✓ Protects against acid rain and (premature) soiling
- ✓ Self-cleaning characteristics

#### Description

RC 805 ECO is a water-repellent based on 5 polymers, type silanes, oligomeric siloxanes, fluorinated resin and bridging resin based on polyolefins. RC 805 ECO is ready for use and suitable for the treatment of mineral construction materials such as concrete, masonry, natural stone or reconstituted natural stone (no bluestone).

Distinctive for RC 805 ECO is the very high penetration in absorbent materials and in very alkaline construction materials such as fresh joints, plaster and fresh concrete. RC 805 ECO is solvent-free, non-flammable, odorless and can be applied on humid surfaces.

#### Properties

- Protects materials against bad weather conditions;
- Is solvent-free;
- Strongly reduces water absorption;
- Lets the substrate breathe and is not film-forming;
- Decelerates the formation of mosses and algae;
- Reduces damage caused by frost;
- Reduces efflorescences;
- Inhibits premature soiling of facades because of the self-cleaning nature of the product.

#### Substrate

RC 805 ECO can only be applied on a pure clean and surface as mentioned in §5.4 of TV 224 of the BBRI. If a soiled facade has to be cleaned (see cleaning techniques in the TV 197 of the BBRI), this can be done with facade cleaners such as RC GEVEL or RC GEVEL P. After cleaning one has to rinse the surface sufficiently until it is completely dust-free. Mosses that are present should be treated with a fungicide RC KILGREEN (see the product data sheet).

Bad joints, bursts or cavities in bricks need to be fixed first. Pulverized materials need to be treated first with RC STONE HARDENER from our product range in order to rebuild the mineral structure. After treatment with RC STONE HARDENER one should wait at least three weeks before using RC 805 ECO. Wait 15 days before starting the impregnation of fresh jointing.

#### Application instructions

Apply RC 805 ECO until saturation, this is preferably done by spraying. The treatment is done from bottom to top with horizontal back and forth movements. Two treatments wet-in-wet should be done executed. The treated surface is allowed to be exposed to rain after  $\pm$  2 hours.

#### Consumption

0,5-1 l/m<sup>2</sup>, depending on the porosity of the surface. Absorption tests with the Karsten pipe have been implemented for the exact evaluation.

## Technical information

Basis:	Silanes/oligomers, fluorinated resin, polyolefins		
Active ingredients:	10% ± 0,2		
Solvents:	None, water-based		
Specific density (20°C):	± 1,05 g/ml		
Odor:	None		
pH:	8 – 10		
Appearance:	Milky white liquid		
Resistance against alkalis:	Resistant until pH 14		
Efficacy after accelerated aging:	On brick	100 %	Class A
	On Savonnières	99 %	Class A
	On Massangis	97 %	Class A
Modification of the surface tension:	30 - 40 mN/m		
Wetting angle (ASTM D5946):	Bigger than 60°		
Watervapor permeability:	Coefficient $\mu < 10$		
Maximal affectiveness:	After 7 days		

## Security

Consult the most recent Safety Data Sheet.

## Remarks

- Windows, frames and other non-treatable surfaces should always be protected. Incidental stains should be cleaned immediately, before drying, with a sponge soaked in soapy water.
- RC 805 ECO cannot be applied on non-porous surfaces such as blue stone, marble, enamelled brick ...
- A preceding test patch with RC 805 ECO on the place of usage is always preferred.
- When salts are present on the surface it is recommended to neutralize these salts with RC SULFASTOP ZB or RC NITRABLOCK (see the product data sheets), before applying RC 805 ECO.

## Cleaning of equipment

Immediately after use with water.

## Storage / Shelf life

- The product must be protected against frost and should not be stored at above 30°C.
- Shelf life when kept in original and closed packaging is one year.

## Packaging

25 liters (item no. 20123).

## Photos



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### Legal Notes

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