



A Subsidiary of PETRONAS Chemicals Group

PRODUCT DATA SHEET

BRB Siloen[®] WRC4 Constructions

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BRB Siloen® WRC4

Masonry Water Repellent Cream



Description

BRB Siloen® WRC4 is a solvent free thixotropic impregnating water-repellent agent, based on alkyl silane suitable for the protection of building materials.
BRB Siloen® WRC4 is also recommended as chemical damp proofing agent.

Application

- Hydrophobizing impregnation of medium and low absorbency high density porous mineral, silicate, alkaline substrates. (concrete, reinforced concrete, plasters, clay and terracotta bricks)
- Hydrophobic agent to stop rising damp in masonry

Features

- Excellent Penetration thanks to its paste consistency allowing long contact time
- Water based, environmentally friendly
- Alkali resistant
- Significantly reduces water uptake as well as water soluble pollutants uptake
- High water penetration resistance by capillarity without clogging pores
- High vapor permeability, breathability
- Invisible protection doesn't change aesthetic of the substrate

Benefits

- Protection against rain and runoff water
- Prevents efflorescence and stops the growth of micro organisms
- Enhanced durability
- Create a chemical barrier against the raising damp

Typical Data

| Parameter | Unit | Value |
|--------------------------|-------------------|---------------------------------------|
| Appearance | | thixotropic translucent whitish paste |
| Active substance content | Wt % | 40 |
| Density at 25°C | g/cm ³ | 0.94 |
| pH | | approx. 7.0 |

How to Use

Masonry water repellent

BRB Siloen® WRC4 is typically applied undiluted in one layer in the desired thickness depending on the substrate conditions (porosity, humidity etc.).

The substrates to be treated should be dry (less than 5% surface moisture) and clean. Cracks bigger than 0,3 mm have to be repaired before the treatment.

In the case of new concrete it's recommended to wait almost four weeks (ageing) before treating with *BRB Siloen® WRC4*.

On large surfaces **BRB Siloen® WRC4** is typically applied by airless gun, whilst on smaller areas the product can be applied with a trowel followed by a roller to get a uniform coat-weight.

Typical dosage of **BRB Siloen® WRC4** depends both on porosity as well as humidity of the building material that is to be treated. In general, between 100 to 700 gr/m² is applied; do not apply too much material since it might liquefy at the surface and it might disappear by run-off. For the same reason, we suggest to avoid application under direct intensive sunlight. Substrate temperature must be in between 5 to 45 °C. After application protect the substrate from rain for at least 4 hours.

Surfaces treated by **BRB Siloen® WRC4** should be protected from rain for almost 24 hours. We recommend to protect the non-absorbent material (windows frame, plastic fittings etc.) before application. In the case of accidental contamination, parts have to be cleaned as soon as possible with an aqueous soap solution. This prevents the product from becoming a resin, which makes its removal more difficult.

Raising Damp Proofing Chemical

BRB Siloen® WRC4 can be injected in walls affected by capillary raising damp. Thanks to its high water solubility, **BRB Siloen® WRC4** disperses more homogeneously into the walls compared to higher solid products, especially in case of moderate damp. It creates a water repellent chemical barrier that stops damp and avoids ground salts coming off.

Application process

1. Preventively remove the ruined plaster for a height of about 80 to 100 cm above the visible level of the raising damp
2. Drill holes alongside the base of the wall at a height of 10 to 15 cm from the ground, with a downward inclination of 8 to 12°. The recommended hole dimension is 14 to 16 mm with a distance of 10 – 12 cm from each other. The depth of the holes has to be equal to 80% - 90% of the thickness of the wall (e.g. 32 to 36 cm depth for a wall 40 cm thick)
3. Fill up the holes by injecting **BRB Siloen® WRC4**, then seal it with non-shrinking mortar. We suggest to clean the holes using a brush and water, before the injection.
4. Indicative application rate for walls of clay or terracotta bricks are as follows:

| | | | |
|--------------------------------------|------------------|-----------------|------------------|
| Wall length | 10 m | 10 m | 10 m |
| Wall thickness | 10 cm | 30 cm | 40 cm |
| Siloen® WRC4 application rate | 2.000 – 2.200 gr | 3.400- 3.700 gr | 4.600 – 4.900 gr |

5. After the application of **BRB Siloen® WRC4** ensure drying the wall to restore the plaster.

A Product Safety Data Sheet should be obtained from your BRB office prior to use.

ATTENTION: Before handling, read product information, Product Safety Data Sheets and container labels for safe use and any physical and/or health hazard information.

FOR MORE INFORMATION

Please contact

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IMPORTANT NOTICE

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