



A Subsidiary of PETRONAS Chemicals Group

PRODUCT DATA SHEET

BRB Siloen[®] 5022 WR

Constructions

BRB International BV

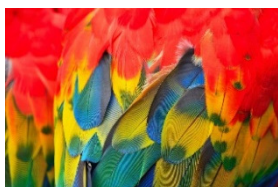
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BRB Siloen® 5022 WR

Silane / siloxane emulsion



Description

BRB Siloen® 5022 WR is a water-thinnable, solventless silane / siloxane emulsion concentrate.

Application

Dilute solutions of *BRB Siloen® 5022 WR* are recommended for:

- Masonry water repellents
 - Ideal for many porous mineral and alkaline surfaces, such as bricks, tiles, limestone, sandstone, concrete and mortar.
- Water repellent deeply penetrating primers for emulsion paints, plasters and concrete coatings
 - Can be used as such or as an admixture in acrylic primers for the production of film-forming impregnating agents for subsequent over coating by masonry paints
- Impregnation of building materials
 - Suitable for clay, concrete, aerated concrete, sand-lime brick, fibrous cement, mineral fibers and lightweight aggregate.

Features

- Excellent depth of penetration
- Fast development of water repellency
- High water penetration resistance by capillarity without clogging pores
- High vapor permeability, breathability
- Strong resistance to alkalis
- Stable in storage even when diluted

Benefits

- Enhanced beading effect
- Permanent water repellent, breathable coating
- Protection against rain and runoff water, avoid chloride penetration.
- Prevents efflorescence and stops the growth of micro organisms
- Does not alter the aspect of the substrate
- Designed to replace solvent based silane / siloxane masonry water repellents
- When used as a primer it provides good adhesion for paints
- Superior performance at high dilution rates

Typical Data

Parameter	Unit	Value
Appearance		Milky white liquid
Active substance content	Wt %	50
Density at 25 °C	g/cm ³	0.95
pH		6 to 8

How to Use

As masonry water repellent

Tap water is suitable for preparing solutions of **BRB Siloen® 5022 WR** to an active substance content of 5% to 10% (dilute the product in the ratio 1:4 to 1:9). For adequate penetration on very high quality concrete, it may be necessary to dilute only in a 1:2 ratio. Solutions of **BRB Siloen® 5022 WR** are not suitable for gypsum and less absorbent, dense natural stones like marble.

The more dilute they are, the more solutions tend to cream. However, this phase separation may be reversed by stirring. This will restore it to a homogeneous emulsion, without loss of efficiency. **BRB Siloen® 5022 WR** contains minor amounts of a preservative that protects the emulsion against microbial contamination and fungal attack. The quality of the water used might make it necessary to add a biocide after dilution; in principle, nearly any water based preservative may be used. Such a diluted solution should be stable for at least 6 months, in case deionized water is used. Always stir the solution before use.

The above solution can be applied to the masonry surface by brush, roller or preferably a garden or low pressure airless sprayer. Substrate has to be dry and clean. Do not apply when raining and whenever happened, stop the application and protect the areas already impregnated. Refrain to apply on extremely hot substrate: too quick water evaporation might reduce depth of penetration and results in surface aspect issues. Two wet-on-wet flood coats are preferred to ensure complete coverage. Applying the second coat before the first one has dried will cause uneven surface finish because of the beading effect. During application, ethanol is released and the emulsion is converted into a silicone resin.

The water-repellent effect develops within a few minutes (especially if the temperature is high and with little humidity). However, the best performances are achieved within a few days.

As impregnating agent for construction materials

Construction materials may be impregnated with dilute **BRB Siloen® 5022 WR** solutions of 1:20 to 1:50. The exact dilution ratio depends on the construction material (e.g. whether relatively dense fibrous cement slabs or low-fired ceramic products are used) and the method of application (e.g. spraying or dipping).

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 or health hazard information.

FOR MORE INFORMATION

Please contact

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IMPORTANT NOTICE

The information given in this product data sheet are believed to be fully accurate. However, BRB International BV shall not be liable for its content and make no warranty with respect thereto. For additional information we request you to contact BRB International BV visit our web-site: www.brb-international.com