



A Subsidiary of PETRONAS Chemicals Group

PRODUCT DATA SHEET

BRB Siloen[®] 696

Constructions

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BRB Siloen® 696

Water repellent liquid admixture



Description

BRB Siloen® 696 is water dilutable solvent-free silane emulsion.

Application

BRB Siloen® 696 is specially designed to be used as:

- Water repellent liquid admixture for non-load bearing concrete based products.
- High quality impregnating and priming of alkaline mineral surface

Features

- High Alkali resistance
- Dilutable with water
- Solvent-free
- Provides hydrophobic properties
- No loss in water vapor permeability

Benefits

- Superior water repellency especially for material with higher alkalinity (> pH 9)
- Easy to use
- Good depth of penetration
- Long lasting water repellence
- Doesn't alter the aspect of treated material
- Improved resistance to freeze-thaw de-icing salt stress
- No significant impact on the concrete rheology (when used as admixture)
- Provide good adhesion of paints (when used as a primer)

Typical Data

Parameter	Unit	Value
Appearance		Milky white liquid
Active matter	%	45
Type of emulsifier		Non ionic
Specific gravity at 25 °C	g/cm ³	0.945
pH		7.5
Diluent		Water

How to Use

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When used as water resisting admixture for non-load bearing concrete-based manufactured products as well as mortars for exterior application, **BRB Siloen® 696** must be added directly in the cement mixer when preparing the mortar. Typical dosage is in between 4.5 to 6 liter of product (as it is) per 1 cubic meter of hydrated mortar either 0.3 to 1 % by weight on weight of dry cement.

To achieve homogenous dispersion in the mass, **BRB Siloen® 696** should be diluted in the processing water.

It is recommended not exceeding too much the above dosage because in front of a better water repellence a loss in mechanical properties might result as possible drawback.

When used as impregnating hydrophobic agent for load bearing high quality concrete, **BRB Siloen® 696** must be used undiluted. Applicators are recommended to wait almost 4 weeks after the production, prior to treat the surface, to leave concrete achieving a complete setting. Moreover, superficial residual moisture of the concrete should not exceed 4%.

Apply **BRB Siloen® 696** by flow coating at low pressure in two coats wet-on wet. For a more even coverage a smooth roller can be used afterward.

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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