

SILRES[®] BS 1803



Silane Emulsions

SILRES[®] BS 1803 is a solvent-free emulsion based on organo-modified silanes and siloxanes.

Properties

SILRES[®] BS 1803 can be used as water repelling admixture for semi-dry concrete and other non-load-bearing cement based building materials (e.g. paving stones, concrete blocks)

- greatly reduces water absorption
- very good water beading
- protection against de-icing salts
- efflorescence reduction
- water vapor permeable

Technical data

General Characteristics

Property	Condition	Value	Method
Active content	-	60.0 wt. %	-
Appearance	-	milky, white	ASTM D 412
Density	-	0.94 g/cm ³	DIN EN ISO 2811-1
Viscosity, dynamic	1 1/S	approx. 2250 mPa·s	specific method

These figures are only intended as a guide and should not be used in preparing specifications.

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Applications

- Concrete Admixtures

Application details

Stir product before use. The recommended admixture range is 0.1 % to 1.0 % of the cement content. A significant reduction in water uptake can be achieved at a concentration of 0.2 %. For post-treatment a 1:4 solution can be recommended to reduce water uptake significantly. When used as an admixture in semi-dry concrete SILRES® BS 1803 produces a matrix that resists water absorption without blocking pores or capillaries. The treated concrete inherently resists intrusion of damaging water and chemicals increasing the service life of the building material. SILRES® BS 1803 prevents or at least reduces efflorescence. A strong water beading effect occurs throughout the whole concrete block.

Packaging and storage

Storage

The 'Best use before end' date of each batch is shown on the product label. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

QR Code SILRES® BS 1803



For technical, quality or product safety questions, please contact:

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