SILRES® BS 1802

SILRES®

Silane Emulsions

SILRES® BS 1802 is used in undiluted form as an admixture for the integral waterproofing of fresh concrete.

Moreover
SILRES® BS 1802 can be used as water resisting admixture for non-load bearing manufactured concrete products.

Properties

In the fresh concrete SILRES® BS 1802 reacts with the water in the building material's pores, eliminating alcohol. The active thus substance formed greatly reduces the concrete's absorbency, but without blocking any pores or capillaries. The impregnated building material retains very high water-vapor permeability.

Technical data

General Characteristics

Property	Condition	Value	Method
Active content	-	approx. 50 wt. %	-
Appearance	-	milky, white	-
Density	20 °C	0.95 g/cm^3	-
Viscosity, dynamic	25 °C	approx. 12 mPa·s	-

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

SILRES® BS 1802 is recommended as a waterproofing concrete admixture.
Processing of undiluted product as a water resisting admixture according to EN 934-2:2009 Tab. 9:

The recommended admixture range is 0.1 % to 1.0 % of the cement content. A significant reduction in water uptake can already be achieved at a concentration of 0.5 % of the cement. SILRES® BS 1802 is added either simultaneously with or immediately after the mixing water – it should never be added along with other additives.

We recommend testing compatibility with other concrete admixtures separately. A longer mixing time will thoroughly distribute the product within the overall system, which in turn will make it highly effective.

An initial test according to DIN Technical Report 100, section 9.5, (alternative: EN 206-1 and EN 1045-2) must be conducted for each new concrete composition. Finer adjustment of the fresh and set concrete properties by, for instance, varying the binder content pursuant to EN 206-1 and EN 1045-2 is recommended on a case-by-case basis. The concrete may harden more slowly during the first days in isolated cases.

Processing as a Concrete Admixture (Water Resisting Admixture) in non-loadbearing concrete goods:

When used in concrete goods or similar concrete products according to EN 1338, 1339 or EN 1340, an initial-type test (cf. section 6.2 of the respective standard) is recommended. For that application the use of diluted SILRES® BS 1802 is permitted.

The recommended admixture range of a 1 : 4 dilution of SILRES® BS 1802 is 1.0 % to 5.0 % of the cement content. A significant reduction in water uptake can already be achieved at a concentration of 1.0 % of the cement.

SILRES® BS 1802 is added either simultaneously with or immediately after the mixing water – it should never be added along with other additives. To keep a constant w/c value the total mixing water is reduced by amount required earlier for dilution. We recommend testing compatibility with other concrete admixtures separately. A longer mixing time will thoroughly distribute the product within the overall system, which in turn will make it highly effective.

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 1802

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

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