

SILRES[®] BS 68



Silane-Siloxane mixtures

SILRES[®] BS 68 is a solvent-thinnable, silane/siloxane mixture. It is used in diluted form for the hydrophobic impregnation of mineral construction materials and as primer for mineral substrates. The concentrated product is also used for manufacturing bitumen-bound minerals or as a binder for mineral systems. The product develops its hydrophobic effect as a result of the reaction with atmospheric moisture or with water adsorbed onto the pores and capillary walls of the construction material. SILRES[®] BS 68 is characterized by higher alkali resistance compared to pure methyl silicone resins. The construction material's water vapor permeability is only slightly affected.

Technical data

General Characteristics

Property	Condition	Value	Method
Density	25 °C	1.03 g/cm ³	DIN 51757
Viscosity, dynamic	25 °C	12 - 17 mPa·s	-
Appearance	-	clear, colorless	ASTM D 412
Flash point	-	50 °C	ISO 2719
Silane content	-	approx. 100.0 wt. %	-

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

- Roofing & Bitumen

Application details

Impregnation/Primer

For impregnation or priming, the diluted solution of SILRES® BS 68 is applied to the construction material by flood coating or brushing. In general, it is sufficient to apply two coats, wet on wet, to the construction material, once its surface region has air-dried. Flooding is the best way to do this.

The amount of impregnant/primer consumed for applying two generous coats depends on the absorbency of the particular construction material. For cost calculations and specification writing, consumption should be determined on a sufficiently large test area (1-2 m²). This can also be used to test the effectiveness of the treatment.

Application in the Bulk In bituminous systems, SILRES® BS 68 is used to pretreat the mineral component. Improved affinity with the bitumen is usually observed after pre-treatment. If the product is to be used undiluted as a binder, it should be thoroughly mixed with the mineral matrix. Pressing is usually necessary to achieve setting simultaneously with the reaction.

Dilution

SILRES® BS 68 can be diluted with water-free aliphatic or aromatic hydrocarbons or with absolute alcohol. The weight ratio should be between 1:11 and 1:15. Preferred solvents are hydrocarbons with low aromatic content, such as Shellsol T. Alcohols should only be used as diluents when contact with solvent-sensitive plastics (expanded polystyrene, bitumen, etc.) cannot be avoided during application.

Packaging and storage

Storage

SILRES® BS 68 must be stored in the tightly closed original container under exclusion of moisture. 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 68



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

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