

SILRES[®] BS 1702



Silane-Siloxane mixtures

SILRES[®] BS 1702 is a solvent-free silane/siloxane mixture, which may be applied in undiluted form or diluted with organic solvents. SILRES[®] BS 1702 serves as a high-quality specialty water repellent for impregnating fiber cement.

Properties

- good depth of penetration
- greatly reduces water absorption
- low volatility, hence little evaporation loss during application After application to the fiber cement SILRES[®] BS 1702 reacts with atmospheric moisture or pore water, thereby generating the active ingredient while liberating alcohol. The active ingredient greatly lowers the water absorbency of the fiber cement, which nevertheless retains a very high degree of water vapour permeability since neither pores nor capillaries are clogged.

Technical data

General Characteristics

Property	Condition	Value	Method
Appearance	-	clear to opaque, colorless to yellowish	WSTM-1118
Density	25 °C	0.920 g/cm ³	DIN 51797
Viscosity, dynamic	25 °C	2.8 mPa·s	DIN 51562
Flash point	-	40 °C	not specified
Ignition temperature (liquids)	-	255 °C	DIN 51794
Silane / Siloxane content	-	approx. 100.0 %	-

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

- Fiber Cement Boards
- Construction Materials
- Hydrophobic Impregnation
- Boards & Panels

Application details

SILRES® BS 1702 is recommended as a repellent impregnating agent and primer for normal and reinforced fiber cement elements. Dilution SILRES® BS 1702 may be used in undiluted form or diluted with organic solvents. The concentration to be applied depends on the quality or porosity of the fiber cement substrate and the desired depth of penetration of the water-repellent agent. Since the penetration depth of the active silane/siloxane component depends directly on the concentration of active ingredient in the water-repellent agent, higher concentrations should be used for high-quality fiber cement with low porosity. For very high quality concretes we recommend applying <(> <<)>productname> either in undiluted form or in a concentration of no less than 1:4 (one part by weight of SILRES® BS 1702 to four parts of solvent). For fiber cement of lower quality, it may be diluted down to 1:9 if necessary. Suitable solvents include aliphatic and aromatic hydrocarbons, particularly white spirits, and anhydrous alcohols, such as ethanol or 2-propanol.

Packaging and storage

Storage

SILRES® BS 1702 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 1702



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

Wacker Chemie AG, Hanns-Seidel-Platz 4, 81737 Munich, Germany
info@wacker.com, www.wacker.com

The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.