SILRES® BS 16

Methylsiliconates

SILRES® BS 16 is an aqueous solution of potassium methyl siliconate and is used in diluted form for the hydrophobic impregnation of mineral construction materials to make them water-repellent.

SILRES® BS 16 develops its water-repellent properties by reaction with atmospheric carbon dioxide (CO_2). The active substance formed from the silicone masonry water repellent is polymethylsilicic acid.

As with all siliconates, however, SILRES® BS 16 can cause a white deposit on the surface of colored construction materials, or if used outside the application guidelines.

Properties

SILRES® BS 16 imparts water repellency to:

- low-fired clay products immediately after they have been made: e. g. roof tiles, facing bricks, floor tiles, flower pots
- aerated concrete
- gypsum and gypsum-based fiber boards
- light fillers, such as perlite, vermiculites and aerated concrete granules
- insulating materials

Technical data

General Characteristics

Property	Condition	Value	Method
Active substance	-	approx. 34 wt. %	-
Appearance	-	clear to hazy, colorless to slightly yellowish	-
Density	25 °C | 1013 hPa | no data available	1.4 g/cm^3	-
K_2O equivalent	-	approx. 20 wt. %	-
Solid content	150 °C | 1 h | 1 g	approx. 55 wt. %	-
Solvent	-	water	-
pH	25 °C	13 - 14	Indicator strips

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

Applications

- Boards & Panels
- Construction Materials
- Gypsum Wallboards and Gypsum Fiberboards
- Hydrophobic Impregnation
- Insulation Materials
- Pre-Impregnation of Construction Materials

Application details

Processing:
Diluted with water SILRES® BS 16 is used for hydrophobic impregnating the surface of masonry materials when a suitable means of achieving an adequate, uniform coating, e. g. dipping, is available. Twofold application is not recommended. The product is not recommended for treating the outside walls of buildings since the necessarily uneven application will give rise to white spots.

Dilution
SILRES® BS 16 is supplied as a concentrate and is diluted with water before use. Ordinary tap water may be used. It is best to add the SILRES® BS 16 masonry water repellent to the water under vigorous stirring. Preliminary tests are always required for the determination of the correct dilution ratio.

Packaging and storage

Storage

SILRES® BS 16 must be stored in the tightly closed original container.

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.

SILRES® BS 16 should be stored in stainless steel drums, plastic or glass containers. Tinplate, aluminium or galvanized or lacquered containers are not suitable. If crystals are formed due to too low storage temperatures, these will redissolve when the product is allowed to warm up. The product must then be stirred thoroughly.

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 16

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

Wacker Chemie AG, Gisela-Stein-Strasse 1, 81671 Munich, Germany
productinformation@wacker.com, www.wacker.com