

SILRES® BS 16

MASONRY WATER REPELLENTS

Product description

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

SILRES® BS 16 develops its water-repellent properties by reaction with atmospheric carbon dioxide (CO₂). The active substance formed from the silicone masonry water repellent is polymethylsilicic acid.

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

Application

Imparting 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

Processing

Diluted with water SILRES® BS 16 is used for 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.

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>.

Product data

Typical general characteristics	Inspection Method	Value
Appearance		Clear to hazy, colorless
Solids content	1 g / 1 h / 150°C	approx. 54 wt. %
Active substance		approx. 34 wt. %
K ₂ O equivalent		approx. 20 wt. %
Solvent		water
Density at 25 °C, at 1013 hPa		1,4 g/cm ³
pH-Value		13 - 14 at 20 °C

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

The data presented in this leaflet 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 leaflet 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 recommendations do 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 products for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

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

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