

SILRES BS 1318

Product description

SILRES BS 1318 is a solventless concentrate based on silanes and siloxanes. SILRES BS 1318 is used in water diluted form for the hydrophobation of in plant produced silicate based mineral construction materials.

Special features

- water-free and solventless silicone concentrate
- spontaneously dilute with drinking water, i. e. without the need for sophisticated mixing devices
- the water diluted product has to be used up within 3 days after production of the dilution

Advantages over ready-to-use products:

- lower packaging costs
- fewer problems with empty containers
- disposal (15 times less packaging)
- lower storage and transport costs

Application

Diluted with water SILRES BS 1318 is used for impregnating the surface of in-plant produced silicate based building materials. A sufficient and homogenous application e.g. dipping is necessary for achieving a good hydrophobic protection.

Especially SILRES BS 1318 is used for the hydrophobation of clay based products immediately after production such as: roof tiles, facing bricks, floor tiles, flower pots.

In order to avoid migration of fractions of the active substance onto untreated materials, equipment or parts of the production building via the gas phase, the entire production unit should be equipped with a local exhaust ventilation from the application of the impregnation agent onwards. The application of the impregnation agent in a separate room, remote from production and storage of unprocessed construction

materials, is recommended.

Processing

Diluted with water SILRES BS 1318 has to be used up within three days after production of the dilution, ie: only as much product should be diluted, as can be processed in three days.

Dilution

Drinking water is suitable for dilution of SILRES BS 1318. When mixing the SILRES BS 1318 into the water, the mixture is stirred briefly. The dilution cause to finely divided opalescent microemulsions. They don't change their appearance, even if they are no longer operational.

In general, good hydrophobic results are achieved when SILRES BS 1318 is diluted 1:10 to 1:50. The application by decreasing active content should be regularly adjusted to the required concentration. Preliminary tests are always required for the determination of the correct dilution ratio.

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>.

Product data

Typical general characteristics	Inspection Method	Value
Appearance		clear
Color		yellowish to red-brown
Silane / siloxane content		approx. 100 %
Density at 25 °C	DIN 51757	0,95 - 0,97 g/cm ³
Viscosity, dynamic at 25 °C	DIN 51562	1 - 10 mPa.s
Flash point		25 °C

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

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.

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

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