

SILRES® BS 5133



Silicone Fluid Emulsions

SILRES® BS 5133 is an aqueous and waterdilutable emulsion of a reactive polydimethylsiloxane (PDMS). It is used to impart water repellency to thermal insulation materials made of glass or stone mineral wool bound with organic binder systems.

Properties

SILRES® BS 5133 has been developed and optimized to be compatible with binders based on carbohydrates.

Technical data

General Characteristics

Property	Condition	Value	Method
Appearance	-	white liquid	visual check
Active substance	-	approx. 60.0 wt. %	-
Density	20 °C	approx. 1 g/cm ³	-
Viscosity, dynamic	25 °C	approx. 100 mPa·s	Brookfield
pH	20 °C	approx. 5 - 8	Indicator strips

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

- Insulation Materials

Application details

After compatibility tests SILRES® BS 5133 is added to the binder mixture. The product is sprayed onto the mineral fibers as part of the binder mixture as usual directly at the fiberizing unit or via an additional spraying equipment applied separately. For this purpose SILRES® BS 5133 can be diluted with any quantity of water. Based on the weight of the mineral fibers the addition ratio varies and can be up to 0,3 weight % even for stone mineral wool (always based on the weight of the dry final product) due to the hydrophilicity of the carbohydrate-based binders. The quantity of SILRES® BS 5133 to be applied also depends on the desired water repellency of the end product general recommendation cannot be given. Individual tests must always be conducted in order to define the necessary quantities. Due to the variety of possible binder types used plus further specific additives, however, a specific compatibility test in each plant is necessary. As the shelf life of the various mixtures depends largely on the formulation e. g. on the dilution of the emulsion it is recommended to apply the binder mixture without delay.

Packaging and storage

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>.

QR Code SILRES® BS 5133



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

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