

SILRES® WH



Silicone Resin Emulsions

SILRES® WH is a water thinnable, solventless emulsion of a functional silicone resin.

Properties

Dilute solutions of SILRES® WH serve as high-quality water repellents for impregnating wood surfaces. Undiluted SILRES® WH may also serve as high-quality hydrophobizing additive for aqueous wood coatings/wood stains.

- water based
- development of longlasting beading effect on wood
- significant reduction of capillary water absorption of wood, particularly after weathering
- no protection against degradation of lignin by UV radiation and accompanying graying (UV transparent)
- increases the durability and longevity of wood stains/coatings for wood because of excellent hydrophobizing properties
- helps to minimize all harmful effects caused by water uptake

Technical data

General Characteristics

Property	Condition	Value	Method
pH	23 °C	approx. 6	Indicator strips
Solid content	-	approx. 54 wt. %	-
appearance and color	-	milky, white	ASTM D 412
Density	23 °C	approx. 1 g/cm ³	DIN 51757
Viscosity, dynamic	23 °C	approx. 35 mPa·s	Brookfield

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

- Wood Applications

Application details

For the use as hydrophobic impregnant for wood SILRES® WH has to be diluted with water. We recommend a solid content of 5-10% (dilute the product in the ratio 1:4 to 1:9), the exact figure depending on how absorbent the substrate is. The application on wood is done by brushing, spraying or flooding.

Concentrated and diluted SILRES® WH forms a certain amount of sediment during storage, which can easily be returned to the emulsion form by shaking. SILRES® WH is used in undiluted form as hydrophobizing additive for aqueous wood stains/ wood coatings during or after their production. Wood stains/ wood coatings modified with SILRES® WH are characterized by excellent water repellency and outstanding water resistance, especially after weathering. The addition of 1 wt.% to 3 wt.% is recommended.

Packaging and storage

Storage

The product or dilutions thereof should be stirred well before use. The formation of a certain amount of sediment during the product's storage period is normal for this product. 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® WH



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

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.