

Protectosil® WS 328

Solvent-free emulsion based on reactive organomodified siloxanes for the hydrophobizing impregnation of absorbent, mineral substrates with excellent beading properties

Technical Data

Properties and test methods	Value	Unit	Method
Density (25°C)	approx. 1,0	g/cm ³	DIN 51757
Appearance	milky white liquid	-	-
Flash point	>100	°C	DIN 22719
Viscosity	approx. 16	mPa·s	DIN 53015
Active ingredient	50	%	-
pH-value (25°)	7-8	-	-

Registration

Protectosil® WS 328

EINECS/ELINCS (EU):	Yes
AICS (Australia):	Yes
DSL/NDSL (Canada):	Yes
PICCS (Philippines):	Yes
TSCA (USA):	Yes
IECSC (P.R. China):	Yes
ENCS (Japan):	Yes
ECL (South Korea):	*
* = available on request	

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Safety and Handling

Before considering the use of Protectosil® products please read its Safety Data sheet (SDS) thoroughly for safety and toxicological data as well as for information on proper transportation, storage and use. The Safety Data Sheet is available after registration on our website www.protectosil.com or upon request from your local representative, customer service or from Evonik Operations GmbH, Product Safety Department, E-MAIL sds-hu@evonik.com.

Packaging and Storage

Protectosil® WS 328 is delivered in 50 l plastic drums, 200 l drums and 1000 l container.

Protectosil® WS 328 may be stored in closed containers for at least 12 months. The product has to be stored under frost-free conditions; storage temperature should not exceed 35 °C. The same applies to dilutions prepared from Protectosil® WS 328 using demineralised water. Improper dilution conditions or preservation may shorten the stability of the diluted material.

Properties and Use

Protectosil® WS 328

- Milky white emulsion based on organomodified siloxanes
- Almost free of volatile organic compounds (VOC)
- Diluteable with water
- Treatment for brick, natural stone and facades
- Injected damp-proof course (DPC, horizontal barrier) for brick, stone and concrete walls
- Hydrophobizing impregnation of neutral, mineral substrates
- Efflorescence prevention
- Penetrates very good in porous, mineral substrates
- Invisible and water vapor permeable protection
- Reduction of water uptake and water soluble pollutants

For the production of ready-to-use formulations Protectosil® WS 328 may be diluted to 5 - 25 % active content depending on the intended use.

For the production of ready-to-use dilutions water (preferably de-mineralised) is added to the emulsion while stirring at low shear. Dilutions should be protected from growth of microorganism by the addition of a suitable preservative (e.g. Actacid MBS from Thor-Chemie). We recommend stirring Protectosil® WS 328 and formulations made from it prior to use.

Masonry water repellents produced from Protectosil® WS 328 should be applied by flooding, brushing or rolling. The substrate should be dry and clean with sufficient porosity. Acceptable surface cleaning methods include sandblasting and water blasting. It is recommended to evaluate the required dosage by means of representative test areas prior to the final impregnation. Very dense substrates (e. g. marble) may not be suitable for impregnation with products based on Protectosil® WS 328. Very absorbent substrates may require up to 1 l/m² of Protectosil® WS 328.

During application outside temperatures and surfaces temperatures should be between +5 °C and +40 °C. Protectosil® WS 328 should not be applied during strong wind or rain.

Application

Non-absorbent substrates such as window frames, window sills, plastic fittings, window glass, etc., should be covered before application. Surfaces which accidentally come into contact with Protectosil® WS 328 can be cleaned with alcohol (spirit) or aqueous soap solution. Cleaning should be carried out as quickly as possible (within a few hours), otherwise formation of a silicone resin film can make cleaning more difficult. Silicone resin films are best removed using ethanol (or spirit). Plant life should be protected from overspray.

Protectosil® WS 328 reacts with the interfaces in pores and capillaries of the mineral surface and forms invisible, water-repellent interfacial compounds. To determine the exact amount to be applied and to check weather previous or following treatments are compatible with the Protectosil® WS 328 treatment it is recommended to do a small test patch first.

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