

Protectosil® 266

Silane water-repellent for masonry.

Technical Data

Properties and test methods	Value	Unit	Method
Flash point	> 63 - 90	°C	EN 22719
Active ingredient content	> 97	%	-
Density (20°C)	1.035	g/cm ³	DIN 51757
Appearance	clear, colorless to yellow liquid	-	-
Solvent	solvent-free	-	-
Viscosity	35	mPa · s	DIN 53015

Registration

Protectosil® 266

EINECS/ELINCS (EU):	Yes
AICS (Australia):	No
DSL/NDSL (Canada):	*
PICCS (Philippines):	Yes
TSCA (USA):	Yes
IECS (P.R. China):	*
ENCS (Japan):	Yes
ECL (South Korea):	Yes
* = Information upon request	

Silane water-repellent for masonry.

Protectosil® 266 is a free-flowing colorless to slightly yellow, frost resistant liquid based on a silane/ siloxane. Protectosil® 266 can be applied at full-strength or after dilution with suitable solvents, such as ethanol or white spirit.

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 Resource Efficiency GmbH, Product Safety Department, E-MAIL sds-hu@evonik.com.

Packaging and Storage

Provided that moisture is excluded, Protectosil® 266 has a shelf life of at least 12 months if stored in originally sealed containers. Protectosil® 266 is supplied in 24 l PE canisters and 192 l plastic lined steel drums and 913 l bulk containers. The material should be stored at temperatures between -10° C and 40° C.

Properties and Use

For waterproofing absorbent mineral facade construction materials such as:

- plaster facades
- sand-lime brickwork
- brickwork
- autoclaved aerated concrete
- cement fiber board

The substrates to be treated should be air-dry and clean in order to ensure deep penetration of the active ingredient. During application the outside temperature and the temperature of the substrate should be within the range from 5 to 40 °C. The material should not be applied if there is a strong wind or if it is raining. The material must not come into contact with water either before or during use. Protectosil® 266 can be applied at full-strength or after dilution with suitable solvents. We recommend a minimum application concentration of 20% by weight (which corresponds to 1 part Protectosil® 266 and 4 parts solvent).

Product Characteristics:

- watervaporpermeable, colorless impregnation
- not film-forming
- effective on hairline cracks up to 0.3 mm
- good reduction of the water absorption
- good penetration
- suitable as a primer for facade topcoat
- frost resistant

Application

Suitable solvents are:

- Ethanol water free* (denatured with petroleum hydrocarbons)
- Aliphatic hydrocarbon solvents (pentane, hexane, heptane, etc.)
- Aromatic hydrocarbon solvents (toluene, xylene)
- White spirit

* highly recommended solvent

The amount to be applied depends to a large extent on how absorbent the substrate is. The exact amount to be applied must be determined by a trial application. Typical product consumptions are $>180 \text{ g/m}^2$ for concrete, $>210 \text{ g/m}^2$ for sand limestone and $> 240 \text{ g/m}^2$ and more for brick. In order to reach these consumption rates it might be necessary to apply the material in several steps. The prepared solution of Protectosil® 266 must be applied by flowcoating to the saturation point. This is achieved by allowing it to flow without pressure against the surface to be treated. All liquid delivery devices are suitable (airless sprayguns, for example). The material must not be atomized or applied with a brush.

Processing

The prepared solution of Protectosil® 266 must remain in contact with the substrate for several seconds as a liquid film. Horizontal surfaces should have a shiny, wet appearance for 3-5 seconds. Vertical surfaces should exhibit a 30-50 cm shiny curtain of liquid. All equipment and containers must be clean and dry. After use they can be cleaned with any organic solvent (methylated spirit, petrol or thinners). Non-absorbent substrates such as glass, wood, plastic and metal cannot be treated with the prepared solution of Protectosil® 266. In the worst case, the product not absorbed by the substrate may react with atmospheric moisture to form a greasy, glossy silicone resin film. Substrates such as mentioned above should be covered before application. If they nevertheless become contaminated, the resulting film can be easily removed if cleaned immediately using conventional cleaning agents, or alcohol (spirit of soap) in difficult cases. Glass, wood and metal are not attacked by the prepared solution of Protectosil® 266. Neither are most plastics used in construction. If in doubt, carry out a preliminary test. Plants in the vicinity of the substrate to be treated should be protected against contact with the solution.

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