

Protectosil® WS 600

Aqueous emulsion for the water repellent treatment of mineral porous materials, especially facades. Essentially VOC free.

Technical Data

Properties and test methods	Value	Unit	Method
Density (20 °C)	approx. 1,017	g/cm ³	DIN 51757
Appearance	white liquid	-	-
Flash point	> 90	°C	EN 22719
Viscosity (20 °C)	approx. 20	mPa.s	DIN 53015
Active ingredient	50	%	-
pH (20°C)	6,5 - 8,5	-	-

Registration

Protectosil® WS 600

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

Protectosil® WS 600 is supplied in 25 l PE-containers, 200 l steel drums with PE-inliner and 1.000 l containers. Protectosil® WS 600 is not frost resistant and should not be stored at temperatures below 3 °C. Only demineralized water should be used for dilutions. Protectosil® WS 600 should be stored at temperatures between 3 °C and 40 °C. Protectosil® WS 600 has a shelf life of 12 months if properly stored in originally sealed containers.

Properties and Use

Protectosil® WS 600

- is suited for the water repellent impregnation of porous mineral substrates
- does not form sticky silicone films
- shows very good penetration on absorbent mineral materials
- gives water vapor permeable, colorless protection
- reduces significantly the uptake of water
- repels water soluble pollutants
- effective on micro cracks of up to 0.3 mm
- can be diluted with water
- is very efficient on mineral rendering, sand-lime brickwork, hard-baked brickwork, roofing tiles

We recommend using a minimum concentration of 10% of the active ingredient in water. This corresponds to a dilution with water (preferable demineralized water) of 1:4. Protectosil® WS 600 is not recommended to be applied undiluted. Minimum dilution rate should be 1:1.

The concentration to be used and the exact amount to be applied are depending on the absorbance of the substrate.

The substrates to be treated should be dry and clean. Acceptable surface cleaning methods include sandblasting and water blasting.

During application outside temperatures and surface temperatures should be between 5 °C and 40 °C. Protectosil® WS 600 should not be applied during strong wind or rain.

Protectosil® WS 600 should be applied by wet-on-wet flow coating to the saturation point. The solution should be applied in 2 - 3 coats without drying between the coats. On vertical surfaces the solution should run down in the form of a clearly visible descending wet curtain. This is achieved by allowing the solution to flow against the surface of the building material without pressure. Most liquid delivery devices e.g. airless pumping equipment are suitable. The material should not be atomized or applied with a brush.

The water repellent effect of Protectosil® WS 600 can develop within minutes or require up to several days depending on the substrate and weather conditions. Therefore, the impregnation should be applied continuously and without a break to avoid overlapping.

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 600 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 600 reacts with the interfaces in pores and capillaries of the mineral surface and forms invisible, waterrepellent interfacial compounds. To determine the exact amount to be applied and to check whether previous or following treatments are compatible with the Protectosil® WS 600 treatment it is recommended to do a small test patch first.

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