

Protectosil® WS 630

Protectosil® WS 630 is an aqueous emulsion for the water repellent treatment of mineral substances with excellent water beading effect.

Technical Data

Properties and test methods	Value	Unit	Method
Density (20 °C)	approx. 1	g/cm ³	DIN 51757
Appearance	white liquid	-	-
Flash point	> 85	°C	EN 22719
Active ingredient	50	%	-
pH (20 °C)	6 - 7	-	-

Registration

Protectosil® WS 630

EINECS/ELINCS (EU):	Yes
AICS (Australien):	*
DSL/NDSL (Canada):	*
PICCS (Philippinen):	*
TSCA (USA):	Yes
IECSC (P.R. China):	*
ENCS (Japan):	*
ECL (Südkorea):	*
* = Information upon request	

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Safety and Handling

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

Packaging and Storage

Protectosil® WS 630 is supplied in 25 l PE-containers, 195 l steel drums with inliner and 975 l bulk container.

Protectosil® WS 630 is not frost resistant and should not be stored at temperatures below 3 °C. Only demineralized water should be used for dilutions.

Protectosil® WS 630 should be stored at temperatures between 3 °C and 40 °C.

Protectosil® WS 630 has a shelf life of 12 months if properly stored in originally sealed containers.

Properties and Use

Protectosil® WS 630 is an aqueous emulsion on the basis of organofunctional siloxanes. Essentially free of volatile organic compounds (VOC)

- is suited for the water repellent impregnation of porous mineral substrates
- reduces significantly the uptake of water
- gives an excellent water beading effect
- repels water soluble pollutants
- does not form sticky silicone films
- shows very good penetration on absorbent mineral materials
- gives water vapor permeable, colorless protection
- effective on micro cracks of up to 0.3 mm
- can be applied full strength or diluted with water

Protectosil® WS 630 can be applied full strength or diluted with water. A minimum concentration of 10% of the active ingredient in water is recommended. This corresponds to a dilution with water (preferable demineralized water) of 1:4. The concentration to be used and the exact amount to be applied are depending on the absorbance of the substrate.

Application Details

Substrate	Application rate:
concrete	min. 220 ml/m ² (dilution 1:4 in water)
clinker masonry	min. 250 ml/m ² (dilution 1:4 in water)
sand limestone	min. 300 ml/m ² (dilution 1:4 in water)
mineral plaster	min. 200 ml/m ² (dilution 1:4 in water)
red brick	min. 340 ml/m ² (dilution 1:4 in water)
Mode of application: airless pumping	

Application

The substrates to be treated should be dry and clean. Acceptable surface cleaning methods include sandblasting and water blasting. During application outside temperatures and surfaces temperatures should be between 5 °C and 40 °C. **Protectosil® WS 630** should not be applied during strong wind or rain.

Protectosil® WS 630 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. All equipment should be clean and dry. The water repellent effect of **Protectosil® WS 630** 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.

The impregnation of delaminations should not be done with **Protectosil® WS 630**. **Protectosil® BHN** or **Protectosil® 40 S** are better suited for this purpose. 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 630** 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 630** 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 630** treatment it is recommended to do a small test patch first.

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