

SARSIL® W + utwardzacz W (catalyst)

Two- component silicone agent for hydrophobization and strengthening surface

PRODUCT DESCRIPTION

SARSIL® W is two-component solvent solution of silicone compounds.

TECHNICAL DATA

No.	PROPERTIES	SARSIL® W
1.	Appearance	homogeneous straw yellow liquid
2.	Dilution	ready to use after addition of catalyst
3.	Density at 20°C	approx. 0,82 g/ml
4.	Viscosity at 20°C according to Ford cup No 4:	approx. 11 s

APPLICATION

SARSIL® W is recommended for simultaneous strengthening and hydrophobization of cement-lime plasters and other porous building materials mainly: sandstones, lime-stones, silicas and clinker bricks, roof tiles and pavement blocks. Excellent for conservation of old deteriorated facades of monuments and sculptures.

SARSIL® W can be also applied to protect all parts of bridge constructions made from concrete, reinforced concrete, pressurized concrete which need anticorrosive protection. SARSIL® W gives excellent penetration and structural impregnation of substrate without sealing. Application of SARSIL® W on a surface decreases rate absorption and increases mechanical resistance, as well as resistance to freezing and crystallization pressure of water-soluble salts.

APPLICATION

Preparation of the substrate surface

The main condition of successful impregnation is a careful preparation of the surface. The porosity of the surface should be uniform. The surface should be clean, degreased and dry. Old and contaminated surface should be cleaned mechanically from dirt, fungi, algae and moss. If necessary, wash with water, preferably by pressure method. The substrate for impregnation must be completely dry.

New cement-lime plasters and concrete can be impregnated not earlier than 21-28 days after finishing construction works. The substrate repaired using plasters or putties of the PCC type can be impregnated after 6 days. Before starting the impregnation all surfaces which will not be impregnated (windows, metal parts, wooden parts, polished stone slabs etc.) should be well protected. Contaminated surfaces should be immediately washed with petroleum (white) spirit or agent **SARSIL® zmywacz**.

Substrate treatment

Before starting treatment SARSIL® W should be carefully mixed with 4% of Utwardzacz W (40g + 1000g SARSIL® W). Such mixture should be used within 7 days. It is recommended that the impregnation should be performed in dry, rainless conditions at temperature from +5 to +30°C and relative atmosphere humidity 80%. At lower temperatures the hydrophobic effect and especially strengthening effect can be delayed. Prior to impregnation of glazed ceramic tiles make test area first. Impregnation can be performed by brushing or spraying. Depending on type, porosity and level of substrate weathering it is recommended to impregnate the surface twice with small intervals using method „wet on wet”. The second layer depending on the ambient temperature and porosity of the substrate should not be put later than 30 min after first impregnation when the surface is still wet. The treated surface should be impregnated accurately and homogeneously.

The product does not cause brightening or change the surface structure which has been treated. In case of low-absorbent substrate, do not leave unabsorbed layer of water repellent. The excess liquid removed 15 minutes after impregnation. A trial application should be carried out prior to full-scale application of the water-repellent.

Efficiency: ca. 1.5 m² from 1 kg when impregnated twice. The consumption of SARSIL® W depends on the absorption of impregnated material and impregnation method.

Attention: During operating with SARSIL® W protective glasses, gloves, cloth and head gear should be worn. During spraying protective masques covering nose and mouth should be worn. During operating with SARSIL® W safety regulations for flammable solvent should be applied, as well as all safety rules and other recommendations described on the product label.

Storage:

SARSIL® W should be stored in cool and ventilated rooms which comply with the storage conditions of flammable materials.

Warranty period:

24 months from the date of manufacture.

Containers:

1, 5, 60, 200 l

SARSIL® W:

- consolidates and protects the surface of building material,
- excellent water repellent protection during several years,
- increases mechanical and freezing resistance,
- uniform penetration to the substrate and formation of the protective layer with excellent resistance to weathering including UV-light and several chemical pollutants,
- does not change permeability of the substrate,
- does not change colour of the substrate, but gives more intensive natural colour of building material,
- exerts the effect of self-cleaning of buildings materials while raining, which helps to maintain the aesthetic appearance for many years,
- protection against algae and fungi growth,
- increase thermal isolation in external walls

UTWARDZACZ W

Product is offered as a catalyst to SARSIL® W.

The addition of UTWARDZACZ W in quantity of 40 g to 1000 g of SARSIL® W allow to obtain final product with additional surface strengthening properties. Its properties and application use is contained in above technical data sheet.

Warranty period

12 months from the production date.

Containers(net content)

0,04; 0,16; 0,2; 0,8 kg

Technical Approvals and Certificates:

Hygienic Certificate PZH (National Institute of Hygiene)

ITB National Technical Assessments

no ITB-KOT-2018/0293

IBDiM National Technical Assessments

no IBDiM-KOT-2017-0079

Tests performed by The Ateliers for Conservation of Cultural Heritage (PKZ) in Toruń

Producer's notes

The information contained in this document is given in good faith based on our current knowledge. However, this shall not constitute a guarantee for any specific product features. Each user bears the full responsibility for making its own determination as to the suitability of product for its own particular purpose. Because actual use of product by the user is beyond our control, such use is within the exclusive responsibility of the user, and we cannot be held responsible for any loss incurred through incorrect or faulty use of the product. For more detailed information please contact us in writing or by phone.

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