

DATA SHEET 2022/01

# Siloxith

Textured silicate-silicone  
plaster

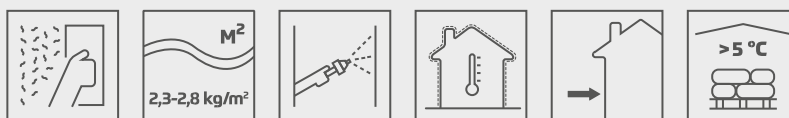


**Product advantages:**

- hydrophobic and vapor permeable
- fiber-reinforced – highly durable
- scraped or rilled structure
- protected against microbial corrosion

**Application:**

FACADES OF BUILDINGS INSULATED WITH THE ETICS SYSTEM BASED ON  
MINERAL WOOL OR STYROFOAM / MINERAL SUBSTRATES



## Product description

Thin-layer plaster for decorative and protective coating in ETICS system, based on mineral wool or styrofoam. The product is a ready to use silicate-silicone plaster mass with fiber additive, protected with an agent preventing algae and fungi growth. Additional hydrophobization properties allows to achieve very good performance characteristics at a moderate price.

Available in three grain sizes and with two textures.

## Technical specification

Classification according to	PN EN 15824
Water vapor permeability	V2 average
Water permeability	W2 average
Substrate adhesiveness	≥1.0 MPa
λ thermal conductivity coefficient	≤0.82 W/(mK) for P=50% ≤0.89 W/(mK) for P=90% (tab. value PN-EN 1745)
Plaster density	approx. 1.80 g/cm³
Quantity of bases	2
Consumption	1.5 mm approx. 2.3 kg/m² 2.0 mm approx. 2.8 kg/m² 3.0 mm approx. 3.7 kg/m²
Drying time.	approx. 24 hours
Application temperature	5°C to +25°C
Expiry period	24 months
Packaging	25 kg

## Properties

Designed for decorative and protective thin plaster linings.

The product combines the characteristics of silicone plasters (hydrophobic and dirt-resistant) and of silicate plasters (resistance and adhesiveness). The product is reinforced with cellulose fibers, increasing its durability and dealing with the tension resulting from divergent thermal expandability of the insulation system layers, thus reducing the cracking.

The presence of silicone agents causes the plastered surfaces to repel water, making the coating highly resistant to dirt as well as self-cleaning.

## Application

The plaster may be used on any mineral and resin substrates with adequate load-bearing capacity and adhesiveness, dry and free of grease, bitumen, dust. The plastered substrate should be smoothed and then primed with Optogrunt UniPlast primer for plasters. The product is the external lining for Optotherm thermal insulation systems.

The product is available in a wide color range, however, when using intensive, dark colors, the application of the material to facades should be limited to small surfaces (no more than 10% of the total facade area), e.g. architectural details.

The recommended light luminance factor for products applied on facades should be greater than 25. Details can be found in the Color Magic charts.

## Substrate

The substrate should be bearing, even, clean, dry and free from dust, stains, bitumen, grease and other agents reducing its natural wettability and adhesiveness.

Recommended substrate drying times before Siloxith application:

- concrete – 28 days,
- traditional cement-lime and lime plasters – 14 days,
- thin reinforced layers with fiber-glass mesh – 3 days.

When using Siloxith indoors on gypsum or plasterboard, first use SilcoForte and when it dries (after at least 8 hours) use the UniPlast primer.

When using a thermal insulation system, use all the product set components\* in relevant order and as per the specified conditions. At least 24 hours before applying the Uniplast or Silcoplast silicate-silicone plaster treat the wall with Optogrunt UniPlast.

Mineral substrates with low adhesiveness (non-bonded plasters and paint coatings) are to be removed.

We suggest leveling uneven and chipped substrates with Optoplan AMT Rapid substrate mortars.

After that the substrate should preferably be coated with Optogunt UniPlast primer. The primer applied to the substrate dries after at least 24 hours, under optimum weather conditions (at 60% relative air humidity and +20°C air temperature).

\*) General rules for handling insulation products are presented in the ITB manual, the relevant approvals, Product Data Sheets and manufacturer's manuals.

## Preparation and application

Mix the plaster directly before applying onto a primed wall. When using a tinted product, check color conformity in all the packages and against the chart before application. Apply a grain-thick layer of plaster onto the wall with a metal float. To achieve adequate plaster structure, smoothen it with a plastic float.

Scrapped structure – round movements in one direction.

Rilled structure – alternative vertical or horizontal linear movements, depending on the expected effect. The wall to be plastered should be completed in one stage of works. If an interruption is needed, separate the plaster in a straight line with masking tape applied on a hidden area, as far as possible (e.g. under a drainage pipe, in the inside corner etc.). Remove the tape before the plaster hardens. Wash all tools with water immediately after application.

When plastering works are finished, close the opened packaging of the plaster carefully and use its contents as soon as possible.

## Conditions of use

During cold seasons and when air humidity is high, the drying will be longer. During such seasons and when the weather conditions are adverse, use protective tarps when drying.

Do not use the material when there's fog or below the dew point.

When the plaster mass is applied and sets, there should be no rain and the air temperature (the substrate and the material) should be 5-25°C. Protect the freshly applied plaster mass against precipitation until it hardens completely.

When the temperature is approx. +20°C and air humidity is approx. 65%, complete drying time is approx. 24 hours. If humidity is higher and the temperature lower, drying time is extended.

## Application recommendations

In order to achieve the best aesthetic results possible, one facade surface should be completed during one working cycle and using product from one production batch only.

Each packaging is marked with a manufacturing lot number. If the mass is applied at different humidities, temperatures and consistencies, the color of the plaster lining will differ.

Do not use dark colors on large facades exposed to sunlight due to increased absorption of sunlight and increased risk of deterioration in aesthetics and properties of the resulting plaster lining.

Do not use Optoplast Siloxith on horizontal surfaces exposed to water. For tinted plaster, especially in dark and/or bright colors, use the primer tinted to the same color as the plaster.

## Consumption

1.5 mm approx. 2.3 kg/m<sup>2</sup>, 2.0 mm approx. 2.8 kg/m<sup>2</sup>, 3.0 mm approx. 3.7 kg/m<sup>2</sup>.

## Tool cleaning

Wash the tools with water immediately after use.

## Storage

Protect from moisture and store in a dry, cold place on pallets, in the original packaging. Re-seal packaging once opened.

Storage time: 24 months in closed, original packaging, at a temperature above +5°C. The manufacturing date is printed on the label.

## Disposal

Only completely emptied packagings are suitable for recycling. Dried remains of material may be treated as construction.

## Safety recommendations

Use general safety measures in accordance with the construction occupational health and safety recommendations for plastering works. The product contains a post-reaction mixture of 5-chloro-2-methyl-2H-isothiazol-3-one [no. EC 247-500-7] and 2-methyl-2H-isothiazol-3-one [no. EC 220-239-6] (3:1).

May cause an allergic reaction. Contains 2-octylisothiazol-3(2H)-one [EC: 247-761-7].

May cause an allergic reaction. Harmful to aquatic life with long lasting effects. In accordance with the EU Directive, the admissible value of maximum VOC (volatile organic compound) content for this type of product (A/c type) is 40 g/L. VOC content in this product is <1 g/L.

## Supervision

Apart from ongoing external audits, the product is controlled by the laboratory of Hufgard Optolith Bauprodukte Polska Sp. z o.o. in accordance with the applicable reference documents.

## Further information

The above information constitutes product description. Treat them as general guidelines based on our research and experience

, which may however not take into account the requirements of specific applications.

Therefore, we recommend performing your own tests. No compensation claims shall result from the information provided.

The product for which the data sheet has been drafted is a component of thermal insulation systems. Only materials listed in the European Technical Assessments (ETA)

may be used for the thermal insulation system.

This applies to all components of a particular system, including: insulation materials, reinforcement meshes and fixing elements.

The manufacturer declares that the parameters indicated for a particular system are met if only the components that are specified in this system are used and only in the configurations provided in the system.

All design and execution works should be conducted by persons qualified and trained in this respect.

## Reference documents

The product is compliant with:

PN EN 15824

Declaration of performance no.: DOP-PL-2002/20

ETA -15/0918 Optotherm 3000

Declaration of performance no.: DOP-PL-3002/16

ETA -17/0878 Optotherm 2001

Declaration of performance no. DOP-ETA-2001/18

Certificate ZKP ITB No. 1488-CPR-0451/Z

Website with declarations of performance (DoP) for Optolith products: [www.optolith.pl](http://www.optolith.pl);

Product ID: Optoplast Siloxith