

# HIDROFAS SIL

*Decorative silicon- based mortar with uniform structure  
Compliant to EN 15824*

## FILED OF APLICATION

Hidrofás Sil is ready mixed silicon- based mortar used for decorative and protective final coating for concrete, mortar, flattered indoor and outside wall surfaces or as final layer in the thermo- insulation facades systems. Hidrofás Sil protects the surfaces from weather conditions, protects the substrate from damaging and enables easy maintenance of the facade surface.

## PROPERTIES

- one component product;
- water repellent;
- vapor permeable;
- elastic;
- resistant and stable to weather conditions;
- resistant to mould, algae and lichens;
- excellent adhesion to the substrate;
- UV stable
- simple application;
- available in granulations of 1mm, 1.5mm and 2mm;
- pigmented in different colours.

## TECHNICAL FEATURES

PROPERTY	METHOD	DECLARED VALUE
Appearance	-	coloured paste
Density	EN ISO 2811-1	Hidrofás Sil 1mm- 1,75g/cm <sup>3</sup> Hidrofás Sil 1,5mm- 1,80g/cm <sup>3</sup> Hidrofás Sil 2mm- 1,83g/cm <sup>3</sup>
Vapor permeability	ISO 7782	V <sub>1</sub> high
Water absorption	EN 1062-3	W <sub>3</sub> low
Adhesion to the substrate	EN 1542	≥0,3MPa
Durability (resistance to freeze- thaw)	EN 1062-3	permeability level according to EN 1062-3 ≤0,5kg/(m <sup>2</sup> *h <sup>0,5</sup> )
Reaction to fire	EN 13501-1	Euroclass F
Drying time on 20°C, relative air humidity of 65%	-	touch dry after 3-4h dry after 24h
Gloss	-	matt

## METHOD STATEMENT

### SUBSTRATE PREPARATION

The substrate should be sound, clean, flat, without grease and dust, without labile parts, oil stains, salts and with fine texture.

#### New substrate

Mortar substrate is recommended to have fine final structure. Uneven surfaces would make the application complicated and the intended structure of the surface would not have the declared effect. New mortars and

facade levelling compounds in normal conditions, on 20°C and relative air humidity of 65% should set at least one day for each mm of the thickness.

#### Old substrate

Remove all labile parts and old coatings off the old substrate. Existing damages should be repaired using suitable materials and the positions should be levelled with the surrounding surface. Before the application clean the substrate and remove the dust. To clean the substrate from mould, lichens or similar it is recommended to use water under pressure.

#### **APPLICATION**

Before the application of the decorative mortar, it is recommended to prime the surface using "structural" primer Hidrofas Grund. Apply Hidrofas Grund using brush, roller or by spraying in one layer. Apply Hidrofas Sil on 20°C with relative air humidity up to 65% 12h after the application of Hidrofas Grund. The temperature of the substrate should be between 5°C and 35°C and the relative air humidity less than 50-60%. Application on unfavorable weather conditions (rain, fog, strong wind) is not allowed.

Hidrofas Sil is ready mixed mortar. Before the application it is recommended to mix the product. Apply it using flat metal trowel. According to the porosity of the substrate and the weather conditions, treat the surface 10-15min after the application with circular movements using plastic trowel. Pot life of the product is 30min. In case the applied surface has protrusions that has been result from the application, it is necessary to press these positions carefully with light, circular movements using steel trowel. Protect treated surfaces from sun, strong wind, rain and dust with curtains 24h after the application.

#### **MAINTENANCE**

Surfaces with Hidrofas Sil doesn't need special maintenance. Dust and dirt, that are not mechanically adhered to the facade surface can be cleaned using broom, vacuum- cleaner or with water. Dust and dirt that are mechanically and chemically adhered to the surface can be removed carefully by rubbing of the surface using wet cloth or soft brush, or by using mild detergents. Afterwards wash the surface with water.

#### **CONSUMPTION**

Hidrofas Grund- 0.2-0.25 kg/m<sup>2</sup>  
Hidrofas Sil 1mm- 2.0-2.5 kg/m<sup>2</sup>  
Hidrofas Sil 1.5mm- 2.5-3.0 kg/m<sup>2</sup>  
Hidrofas Sil 2mm- 3.0-3.5 kg/m<sup>2</sup>

#### **CLEANING**

Clean tools and equipment with water right after use.

#### **PACKAGING**

Hidrofas Grund- plastic cans 5 and 20kg  
Hidrofas Sil 1mm- plastic cans 25kg  
Hidrofas Sil 1mm- plastic cans 25kg  
Hidrofas Sil 1mm- plastic cans 25kg

#### **STORAGE**

In original, closed packaging, in dry rooms, at temperature between 5°C and 30°C. Shelf life: 12 months.

#### **STANDARD COLORS**

White and transparent base for mixing in 250 colours from the standard chart of ADING.

**CE**

<p><b>ADING A.D. - Skopje</b> Novoselski pat (ul.1409) br.11, 1060 Skopje, R. Severna Makedonija</p> <p>24</p>	
<p>EN 15824 <b>HIDROFAS SIL 1</b> Decorative silicon- based mortar with uniform structure</p>	
Vapor permeability	V <sub>1</sub> high
Water absorption	W <sub>3</sub> low
Adhesive strength	≥ 0.3MPa
Durability (resistant to freeze- thaw)	permeability level according to EN 1062-3 ≤ 0.5 kg/(m <sup>2</sup> ·h <sup>0.5</sup> )
Thermal conductivity	ND
Reaction to fire	Euroclass F

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<p>EN 15824 <b>HIDROFAS SIL 1.5</b> Decorative silicon- based mortar with uniform structure</p>	
Vapor permeability	V <sub>1</sub> high
Water absorption	W <sub>3</sub> low
Adhesive strength	≥ 0.3MPa
Durability (resistant to freeze- thaw)	permeability level according to EN 1062-3 ≤ 0.5 kg/(m <sup>2</sup> ·h <sup>0.5</sup> )
Thermal conductivity	ND
Reaction to fire	Euroclass F

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<p>EN 15824 <b>HIDROFAS SIL 2</b> Decorative silicon- based mortar with uniform structure</p>	
Vapor permeability	V <sub>1</sub> high
Water absorption	W <sub>3</sub> low
Adhesive strength	≥ 0.3MPa
Durability (resistant to freeze- thaw)	permeability level according to EN 1062-3 ≤ 0.5 kg/(m <sup>2</sup> ·h <sup>0.5</sup> )
Thermal conductivity	ND
Reaction to fire	Euroclass F

**Health hazards:** Avoid contact of the product with skin (use protective gloves). Material is not toxic, but in case of accidental contact of the product with skin, immediately remove it using soap and water. In case it splashes into eyes, immediately rinse them using plenty of water and seek for medical help.

**Fire:** Hidrofas Sil is not tested to fire reaction.

**Cleaning and storage:** Clean loose residues of Hidrofas Sil with water. Old and used packaging should be disposed in accordance with the local rules and regulations for that type of waste. It is recommended to adjust the method of application and necessary quantities according to the potential of the building, as well as mandatory use of appropriate equipment.