

HYDROSTOP SILICONE PLASTER



Silicone-based waterproof topcoat plaster/render in paste form



■ PROPERTIES

Ready for use, self-cleaning top coat/render in paste form, available white or colored. The product is also available in three different grain sizes to suit every need, with specially graded aggregates creating smooth or textured surfaces.

The product is resistant to UV radiation and the creation of mold, algae and fungi on its surface. It reduces the possibility of deterioration/erosion of the wall structures and of the structural elements from the effect of CO₂ (carbon dioxide), as well as other problems created in external environment conditions.

■ ADVANTAGES

- High vapour permeability Class 1- EN ISO 7783-2.
- Complete water repellency, per EN 1062-3.
- Excellent adhesion, high flexibility, and resistance to UV radiation.
- Resistance to alkalis, per DIN 18556.
- Does not crack or peel.

- Eliminates the need for frequent painting of the facades of buildings.
- It guarantees full waterproofing and longevity of the facades.
- High mechanical strengths, speed, and ease of application.
- CE certification per EN 15824.
- It participates as a top coat render to the External Thermal Insulation Composite System for buildings THERMOSEAL of DUROSTICK and is in compliance with the requirements of EAD 040083-00-0404, ETA 13/0006 and ETA 13/0007.

■ APPLICATIONS

HYDROSTOP SILICONE PLASTER, FINE & GRAFIATO (Textured) is used on exterior surfaces as render (top coat) replacing traditional, marble-based renders, and on interior surfaces as a decorative coat. Apply it either manually or by using a rendering machine. It is applied on walls and ceilings, made from various construction materials such as plaster

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and concrete, drywall, cement boards, aircrete etc. It is ideal as a topcoat for external thermal insulation systems for buildings.

■ USE

1. Surface preparation

The substrate must be dry and free of dust, oils and loose materials. Continue by priming with the special silicone-based primer, HYDROSTOP SILICONE PRIMER. Smooth or non-absorbent surfaces are primed using DS-290, DS-260 QUARTZ PRIMER and DS-255 (quartz primers) of DUROSTICK. Apply HYDROSTOP SILICONE PLASTER once the primer has fully dried.

2. Application

After establishing that the substrate is satisfactory, sound and flat, mix the plaster well using a low-rpm electric mixer before any application. Apply the product using a smooth stainless or plastic trowel. The product can also be applied using an appropriate plastering machine. Following, 'even' out the product to the maximum grain thickness by 'pressing', with round, circular motions using a plastic float for renders, depending on the desired aesthetic effect. The working time to smooth the plaster is between 10 to 20 minutes after the product sets and before it completely dries, depending on the absorbency of the substrate and the ambient temperature.

■ NOTES

- Colored in 44 exceptional color chart colors and delivered factory colored.
- Color uniformity can be achieved only if the product comes from the same production batch. If for any reason products from different batches are to be used, it is highly recommended to mix them together thoroughly prior to the application to avoid any discolorations.
- Avoid applying the product when the surface is exposed to direct sunlight or strong winds or when there is a possibility of rain in the following hours. Intense temperature, high humidity, and the substrate can all affect the final color.

■ CLEANING

Clean all tools and equipment with water, immediately after use.

■ CONSUMPTION

- **Hydrostop Silicone Plaster Fine 1.0mm:**
1.8-2.0kg/m²/mm.
- **Hydrostop Silicone Plaster Fine 1.5mm:**
2.0-2.3kg/m²/1.5mm.
- **Hydrostop Silicone Plaster Grafiato 2.5mm:**
2.8-3.2kg/m²/2.5mm.

■ STORAGE

Store in places protected from sun and frost, for 18 months from production date.

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| TECHNICAL SPECIFICATIONS (Measurement conditions 23°C and 50% R.H.) | |
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| ■ Form - Colors | White paste - 44 HYDROSTOP SILICONE PLASTER color-chart colors |
| ■ Bulk density | 1.90±0.05kg/lt |
| ■ Maximum grain size | FINE: 1.0mm & 1.5mm / GRAFIATO: 2.5mm |
| ■ Water vapour permeability | V1 (EN ISO 7783 - 2, V1: High $S_D < 0.14m$) |
| ■ Water absorption | W3 (EN 1062 - 3, W3: Low $w \leq 0.1kg / m^2 \cdot h^{0.5}$) |
| ■ Adhesion strength | 0.4 MPa (EN 1542) |
| ■ Thermal conductivity | $\lambda = 0.8 W/(m \cdot K)$ (EN 1745) |
| ■ Reaction to fire per EN 13501-1 | Euroclass C |
| ■ Cure time | 4-6 hours (at 23°C and 50% relative humidity) |
| ■ Application temperature | From +5°C to +35°C |

V.O.C. (Volatile Organic Compounds):

V.O.C. Limit value of maximum V.O.C. content per EU (Directive 2004/42/EC) for this product (category A/c: 'Coatings for exterior walls of mineral substrate', Type WB): 40gr/lt (2010). The ready to use product contains maximum 39gr/lt V.O.C.

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The technical specifications and directions of use contained in this technical brochure are the results of the knowledge and experience of the company's research and development department, as well as from the real-life applications of the product. The recommendations and suggestions regarding the use of the products are made without guarantee since the respective conditions during their application are beyond the control of the company. For this reason, it is the user's responsibility to make sure that the product is suitable for the intended application as well as the application conditions of the project.