

D-41



Water repellent top coat plaster



■ PROPERTIES

Ready mixed, resinous plaster, with 1.0mm maximum grain size. It offers high adhesion and resistance to abrasion, moisture and extreme weather conditions. After immersing D-41 in water for 24 hours, it absorbs water only up to 1% of its weight, in contrast to ordinary plasters, wherein the water absorption reaches 15%. It provides excellent water vapor permeability, while it does not burst or crack like ordinary plasters do. Classified GP: CSIII/Wc2, per EN 998-1.

■ APPLICATIONS

Apply D-41 on wall surfaces made of brick, cement block or concrete that have been coated with scratch and base (brown) coat plaster or with DUROSTICK D-40 scratch coat plaster, after allowing 5-10 days of curing time. It is suitable for interior and exterior use.

■ USE

1. Surface preparation

Base coat plaster and aircrete substrates have to be free from loose sections and continuously soaked to

reduce their absorbency, especially during summer months.

2. Application

Add 25kg of mortar in a clean cement mixer with 5.5-6.0lt of cool water that is mixing, until achieving full homogenization of the mixture.

Apply the plaster by using a gauging trowel and a hawk or with a plastering machine, until all base coat defects are covered.

If needed in some sections, apply a second coat before the first one dries. Once the plaster sets, smooth the surface using the appropriate (plastering) float.

■ NOTES

- It is recommended to apply the top coat plaster close to the finishing stages of the construction to avoid damage from other trades.
- It is absolutely necessary to prime all aircrete surfaces before any plaster application. Use the acrylic emulsion, D-20 of DUROSTICK at a dilution

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rate of 1:1 and up to 1:2 with water to stabilize as well as to prime the application surface. It is imperative to apply D-41 onto the primed surface before the acrylic emulsion dries. Prime only enough surface that can be coated with plaster, before the emulsion has any chance to dry.

- Once the plastering of a surface begins, do not stop half way through that surface to prevent shading of the finished plaster.

- During the summer months, it is recommended to soak the plaster after its application, to avoid early dehydration.

- It is highly recommended to ensure the complete water repellency and breathability of the plaster, which would prevent its deterioration. The impregnation of the plaster surface using the silicone-based, water repelling agent, DUROSTICK D-18, even 15 days after the plaster application will achieve just that. Alternatively, prime and paint with the acrylic paints of DUROSTICK, 28 days from the plastering completion.

■ CLEANING

Clean all tools with water, immediately after use.

■ CONSUMPTION

Approximately 5kg/m²/3mm thick coat.

■ STORAGE

Store in the factory sealed packages, in dry and shaded places for 12 months from production date.

■ SAFETY DIRECTIONS

The product contains Portland cement. Before use, refer to the cautions on the product packaging or the Safety Data Sheet.

■ PACKAGING

Paper bag of 25kg on 1.500kg pallet

TECHNICAL SPECIFICATIONS (Measurement conditions 20°C and 65% R.H.)	
■ Form - Color	Cementitious mortar - White
■ Bulk density of dry mortar	1.45±0.05kg/lt
■ Bulk density of fresh mortar	1.90±0.05kg/lt
■ Maximum grain size	1,0mm
■ Water requirement	5.5lt water for 25kg mortar
■ Application temperature	From +5°C to +35°C
■ Temperature resistance	From -35°C to +90°C
■ Pot life	2 hours
■ Maximum application thickness	1cm

PRODUCT PERFORMANCES	
■ Strength after 28 days, per EN 1015-11, in:	
• flexion	2.50±0.50 N/mm ²
• compression	4.50±1.00 N/mm ²
■ Strength after 28 days, per EN 1015-12, in:	
• adhesion	0.80±0.10 N/mm ²
■ Capillary water absorption (c), per EN 1015-18	≤ 0.20kg/m ² ·min ^{0.5}
■ Water vapor diffusion coefficient per EN 1015-19	μ 15/35
■ Thermal conductivity λ _{10, dry} per EN 1745 (Table A.12)	0.75 W/m·K
■ Reaction to fire	Class A1

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The technical specifications and directions of use contained in this technical data sheet 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.