

# 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.

# D-41



## Water repellent top coat plaster

### ■ 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 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/m<sup>2</sup>/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 <sup>2</sup>
•compression	4.50±1.00 N/mm <sup>2</sup>
■ Strength after 28 days, per EN 1015-12, in:	
•adhesion	0.80±0.10 N/mm <sup>2</sup>
■ Capillary water absorption (c), per EN 1015-18	≤ 0.20kg/m <sup>2</sup> .min <sup>0.5</sup>
■ Water vapor diffusion coefficient per EN 1015-19	μ 15/35
■ Thermal conductivity λ <sub>10, dry</sub> per EN 1745 (Table A.12)	0.75 W/m.K
■ Reaction to fire	Class A1

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