DUROSTICK D-41 Water repellent top coat plaster

QUALITY CONTROLLED CE EN 998-1

WATERBLOCK TECHNOLOGY

ACCORDING TO EUROPEAN STANDARD EN 998-1 GP CSIII/W2 DUROSTICK

TECHNICAL SPECIFICATIONS *(Measurement conditions 20˚C and 65% R.H.)*

Form - Color	Cementitious mortar - White
Toxic	No
Bulk density of dry mortar	1.45±0.05 kg/lt
Bulk density of fresh mortar	1.90±0.05 kg/lt
Maximum grain size	1.0mm
Water requirement	5.5 lt per 25 kg of 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

MECHANICAL STRENGTHS

Strength after 28 days per, EN 1015-11, to:	
• **flexion**	2.50±0.50 N/mm²
• **compression**	4.50±1.00 N/mm²
Adhesive strength after 28 days, per EN 1015-12:	0.80±0.10 N/mm²
Capillary water absorption (c) κατά EN 1015-18	≤0.2 kg/m².min$^{0.5}$

CONSUMPTION

Approximately 5kg/m²/3mm thick coat.

STORAGE

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

SAFETY DIRECTIONS

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

NOTE

After curing, the product is harmless to health and environment.

PACKAGING

Paper bag of 25kg on 1,500kg pallet

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 to 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 vapour permeability, while it does not burst nor crack like conventional plasters do. It is suitable for indoor and outdoor use. Classified GP: CSIII/W2, per EN 998-1.

APPLICATIONS

Apply D-41 on wall surfaces made of brick, cement block, aircrete 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.

USE

1. Surface preparation

Base coat plaster and aircrete substrates have to be free from loose materials and well soaked to reduce their absorbency, especially during summer months.

2. Application

Add D-41 in a clean cement mixer while water is mixing, calculating 5.5-6.0lt water per bag, 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 spots, apply a second coat while the first one is still fresh. Once the plaster sets, smooth the surface using the appropriate 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 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 application of plaster will achieve just that.

- 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 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 it has any chance of drying
- During the summer months, it is recommended to soak the plaster after its application, to avoid early dehydration.
- It is recommended to prime and paint the plaster with acrylic or emulsion paints of DUROSTICK after 28 days have passed from its application completion.

CLEANING

Clean all tools with water, immediately after use.