

# DUROSTICK D-4



Natural stone grout for joints 8-50mm



## PROPERTIES

Polymer modified, resinous grout with selected aggregates and high strength cement, available in white and gray color. Creates joints without salts and impurities, in contrast to the traditional way of jointing with sea sand. It is water repellent, highly resistant to abrasion, moisture and frost. It has strong adhesion to the sides of stone slabs, without cracking or detaching. Classified as grout CG2/WAr, per EN 13888.

## APPLICATIONS

D-4 grout is suitable for walls lined with stone slabs, and more so for floors lined with any type of slate, for both interior and exterior surfaces. The choice of its white shade on floors covered with Karystos or Pelion stone slates, creates a unique aesthetic image of the traditional Aegean style.

## USE

### 1. Surface preparation

Remove from the surface any residues of adhesive or screed material and clean the joints with a damp sponge.

### 2. Application

Empty 25kg of D-4 grout in a clean container with 5.0-5.5lt of cool water. Stir with a low-rpm drill until a lump free, homogeneous mass is created. Allow for the mixture to mature for 5-10 minutes, until it becomes a viscous paste. Fill the joints using either a grouting bag, a grouting float or the versatile professional barrel gun, DUROSTICK DUROSEAL 600. The addition of the acrylic emulsion D-20 or DUROSTOP of DUROSTICK, in the mixing water at a ratio of 1 part emulsion to 2 parts water, increases the flexibility and water tightness of the grout. When the grout begins to set, remove any residue with a damp sponge. Once the grout is hard, smooth it with a soft damp sponge. Allow for 28 days to pass and clean the slabs/slates using the natural stone

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cleaner DUROSTICK D-7, when you need to remove any construction residues. For regular stone cleaning, use the biodegradable cleaner, BIOCLEAN (for polished marble and decorative bricks, stones etc.). To protect all cobblestone floors next to gardens, it is highly recommended to apply on them a preventive impregnation coat. Use the silicone based water repelling impregnation agent, RENOLIT of DUROSTICK (matte finish), to protect the stones from rising damp. If the aesthetic style dictates to highlight the stone veining, to give the 'permanent wet' look and to shine at the same time, then apply 2-3 coats of acrylic stone varnish, D-12. If you want a matte finish, apply the solvent based varnish, VISTA or the two-component varnish DECOFIN POLYURETHANE of DUROSTICK. On surfaces such as balconies or terraces, it is recommended to create an expansion joint of 1 to 2cm every 20m<sup>2</sup> and to seal it with DUROFLEX-PU polyurethane sealant, after priming with PRIMER-PU. Optionally fill the joints with the polyethylene backer rod, DS-265 wherever this is deemed 'technically' necessary.

### CLEANING

Clean all tools with water, immediately after use.

### CONSUMPTION

Approximately 3-4kg/m<sup>2</sup>, depending on the stone sizes, the width and the depth of the joints.

### 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.

### PACKAGING

Paper bag of 25kg on 1,500kg pallet

### TECHNICAL SPECIFICATIONS *(Measurement conditions 23°C and 50% R.H.)*

<b>Form - Color</b>	Cementitious mortar - White, Gray
<b>Shades</b>	The white mortar can be colored in 48 colors by adding pigments in powder form, DUROCOLOR POWDER-C, yielding 96 distinct colors
<b>Toxic</b>	No
<b>Bulk density of dry mortar</b>	1.40±0.05kg/lt
<b>Bulk density of fresh mortar</b>	1.90±0.05kg/lt
<b>Maximum grain size</b>	Up to 1.3mm
<b>Water requirement</b>	5.0lt water in 25kg mortar
<b>Application temperature</b>	From +5°C to +35°C
<b>Temperature resistance</b>	From -30°C to +80°C
<b>Pot life</b>	At least 3 hours
<b>Foot traffic</b>	After 8 hours
<b>PRODUCT PERFORMANCES</b>	
<b>Strength after 28 days, per EN 12808-3, to:</b>	
• flexion	8.10±1.0 N/mm <sup>2</sup>
• compression	45.00±2.0 N/mm <sup>2</sup>
<b>Adhesion after 25 freeze-thaw cycles, per EN 12808-3, to:</b>	
• flexion	8.10±1.0 N/mm <sup>2</sup>
• compression	45.00±2.0 N/mm <sup>2</sup>
<b>Shrinkage per EN 12808-4</b>	≤ 2 mm/m
<b>Abrasion resistance per EN 12808-2</b>	≤ 1.000 mm <sup>3</sup>
<b>Water absorption, per EN 12808-5 after:</b>	
• After 30 minutes	≤ 2gr
• After 240 minutes	≤ 5gr

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**DUROSTICK S.A.**

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