

DUROSTICK D-23 Marble & granite adhesive



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

Form - Color	Cementitious mortar - White
Toxic	No
Bulk density of dry mortar	1.40±0.05 kg/lt
Maximum grain size	1.3 mm
Slip per EN 1308	<0.5 mm
Water requirement	7.0 lt water per 25 kg mortar
Application temperature	From +5°C to +35°C
Temperature resistance	From -35°C to +90°C
Application thickness	Up to 10 mm
Pot life	3 hours
Open time per EN 1346	20 minutes
Time for minor adjustments	25 minutes
Foot traffic	After 24 hours
Delivery to use	After 10 days

MECHANICAL STRENGTHS

Strength after 28 days, per EN 196-1, in:	
• flexion	5.50±0.50 N/mm ²
• compression	19.00±1.00 N/mm ²
Adhesion strength per EN 1348, after:	
• 28 days	2.20 N/mm ²
• Thermal ageing at +70°C	1.70 N/mm ²
• Water immersion for 21 days	1.80 N/mm ²
• 25 freeze - thaw cycles	1.75 N/mm ²

The experimental measurements were performed per EN 12004, in the Chemical Laboratory of DUROSTICK and were confirmed by the measurements of initial type from MIRTEC (Cert. no: 3675) The following instrumentation was used:
 • Flexion-compression: CONTROLS MCCC66 • Detachment: BRAVE DYNATEST
 • NOTE: The product exceeds on average the statutory requirements for C2 adhesive by 80%.

STORAGE

Store in factory sealed packages, in dry and shaded places for a minimum of 12 months after 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

PROPERTIES

White adhesive reinforced with resins, for marble and granite installations. Distinguished for its extremely strong adhesion, initial and final adhesive strength. After its complete curing, it is moisture and frost resistant. It does not stain white and color marble. Classified C2T per EN 12004. (MIRTEC/Cert. No. 3675).

APPLICATIONS

DUROSTICK D-23 is suitable for marble and granite linings on walls, floors, stairs, both indoors and out (pic.1, 2). It is suitable and necessary for installing textured marble and stone on building facades.

Provides excellent adhesion to regular and irregular shaped floor slabs, subjected to great stresses.

Adding DUROSTICK ACRYLIC EMULSION in the mixing water, at a ratio of 1:1, or 1 part DUROMAX to 5 parts water, further enhances its characteristics, so as to meet the requirements of S1 class (deformable adhesive) per EN 12002.

With this improvement, the adhesive is perfectly appropriate for marble installations on building facades, up to 3m high and from 1-3cm thick (slab thickness), avoiding mechanical support/clips (check with your local and National building codes).

The enhanced, flexible adhesive is suitable for bonding marble and stone slabs over outdoor, expanding and contracting substrates and over radiant heating flooring systems.

USE

1. Surface preparation

The application surface must be sound, clean, free of loose materials, dust, paint, grease, oils and it should be

soaked before the application. All unstable and absorbent substrates must be primed, using the micromolar stabilizer, AQUAFIX.

Alternately, use the acrylic emulsion, D-20 of DUROSTICK diluted in clean water, at a mixing ratio of 1 part emulsion to 2 parts water, thus achieving an unbreakable bonding.

For applications on balconies and roofs, coat the substrate with HYDROSTOP FLOOR, at 2-3 successive, crosswise layers to ensure the waterproofing of the substrate.

2. Application

Empty the adhesive into a clean container with cool water at a ratio of 2 parts water to 5 parts mortar (7.0-7.5lt water to 25kg mortar) and mix with a low rpm electric mixer until a lump free, homogeneous mass is created. Allow the mixture to mature for 5-10 minutes.

During use, mix periodically, without adding extra water.

Apply the adhesive using a gauging trowel, 'comb' with a notched trowel and spread on the substrate.

Then, coat as much surface as is required to work for the next 10-20 minutes (depending on weather conditions), thus avoiding skin formation. Finally, install the marble in the selected position by tapping softly with a rubber mallet.

CONSUMPTION

4-7kg/m², depending on the size of the notch of the trowel, the smoothness of the substrate and the dimensions of the marble and stone slabs.

CLEANING

Clean all tools with water, immediately after use.



pic. 1



pic. 2