

# SPECIAL MONOCOTTURA



Contractors' grade tile adhesive



## PROPERTIES

Cementitious white ceramic tile adhesive with minimal slip. Provides high bonding power, resists moisture and quickly acquires its mechanical strengths. Classified C1 per EN 12004 (MIR-TEC/ Cert. No. 3351).

## APPLICATIONS

SPECIAL MONOCOTTURA is suitable for interior wall and floor tile installations. The addition of DUROSTICK ACRYLIC EMULSION in the mixing water, at a ratio of 1:1, improves its technical characteristics, to meet the requirements of C2 class (improved cementitious adhesive) per EN 12004 and S1 class (deformable adhesive), per EN 12002. The improved adhesive then becomes suitable for exterior installations, even for low absorbency tiles.

## USE

### 1. Surface preparation

The application surface has to be sound, clean, free of loose materials, dust, paint, grease and

oils. The surface has to be soaked before the application. It is necessary to prime all absorbent substrates and aircrete, using DUROSTICK ACRYLIC EMULSION or D-20, at a mixing ratio of 1:1 with water. It is necessary to prime all cement boards using DUROSTICK micromolar stabilizer, AQUAFIX or SOLVENT BASED PRIMER. Lightweight or else, unstable cement screeds, must necessarily be primed with DUROSTICK ACRYLIC EMULSION or D-20 at a ratio of 1-part additive to 2 parts water or 1-part DUROMAX to 5 parts water. Follow all balcony and terrace applications by coating the substrate with HYDROSTOP FLOOR, with 2-3 successive, crosswise coats 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 5.5 parts mortar (6.0- 6.5lt water to 25kg mortar or 1.2- 1.3lt water to 5kg mortar) and mix with a low rpm electric mixer until a lump free, homogeneous mass is created. Allow the mixture to mature for

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5-10 minutes. During use mix periodically, without adding extra water. Apply the adhesive using 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 tiles in the selected position by tapping softly with a rubber mallet.

### CLEANING

Clean all tools with water, immediately after use.

### CONSUMPTION

3-5kg/m<sup>2</sup>, depending on the size of the notch of the trowel, the smoothness of the substrate and the dimensions of the tiles.

### NOTE

On exterior surfaces, it is highly recommended to create expansion joints every 16-20m<sup>2</sup>. Prime the expansion joints with PRIMER-PU, to improve grip, fill them with the backer rod of DUROSTICK, DS-265, and seal them with the polyurethane sealant, DUROFLEX-PU. Similarly, seal all the joints (5-8mm) at the junction of the tiles and vertical surfaces throughout the perimeter. Alternatively, the application of DS POLYMER sealant, available in 32 colors (same ones with the grout colors of DUROSTICK), ensures sealing without cracking at the junction of the tiles with the skirting and above it as well.

### STORAGE

- 25kg Paper bag with valve: At least 12 months from production date.
- 5kg Plastic bag: At least 18 months from production date.

Store in factory sealed packages, in dry and shaded places.

### SAFETY DIRECTIONS

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

### PACKAGING

Carton box with 4 pcs of 5kg each one on a 900kg pallet

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
<b>Toxic</b>	No
<b>Bulk density of dry mortar</b>	1.35±0.05kg/lt
<b>Water requirement</b>	6.0lt water per 25kg mortar
<b>Application temperature</b>	From +5°C to +35°C
<b>Temperature resistance</b>	From -20°C to +60°C
<b>Pot life</b>	At least 4 hours
<b>Application thickness</b>	Up to 10mm
<b>Open time per EN 1346</b>	20 minutes
<b>Time for minor adjustments</b>	15 minutes
<b>Grouting</b>	After 4-8 hours on wall, after 24 hours on floor
<b>Foot traffic</b>	After 24 hours
<b>Delivery to use</b>	After 10-14 days
<b>PRODUCT PERFORMANCES</b>	
<b>Adhesion strength, per EN 1348, after:</b>	
• 28 days	1.20 N/mm <sup>2</sup>
• Thermal ageing at +70°C	0.90 N/mm <sup>2</sup>
• Water immersion for 21 days	0.90 N/mm <sup>2</sup>
• 25 freeze - thaw cycles	0.95 N/mm <sup>2</sup>
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. 3351).	
<b>NOTE: The product exceeds the statutory requirements for C1 adhesive.</b>	

The technical specifications and directions of use contained in this technical brochure 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.

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<b>DUROSTICK S.A.</b> ASPROPYRGOS ATHENS PC:193 00 <b>GREECE</b> 07
DoP No.: 001 <b>EN 12004:2007+ A1:2012</b>
<b>DUROSTICK</b> <b>SPECIAL MONOCOTTURA</b> Normal setting cementitious adhesive
- Reaction to fire: Euroclass A1 - Release of dangerous substances: see MSDS
Bond Strength as: - Tensile adhesion strength: $\geq 0.50$ N/mm <sup>2</sup> Durability for: - Tensile adhesion strength after heat ageing: $\geq 0.50$ N/mm <sup>2</sup> - Tensile adhesion strength after water immersion: $\geq 0.50$ N/mm <sup>2</sup> - Tensile adhesion strength after freeze-thaw cycles: $\geq 0.50$ N/mm <sup>2</sup>

## DUROSTICK S.A.

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