

# SPECIAL MONOCOTTURA



## Tile adhesive



### ■ PROPERTIES

Cementitious white adhesive for ceramic tiles with low slip. Provides high initial and final adhesive strength, it develops its mechanical strength rapidly and it is resistant to moisture.

Classified C1 per EN 12004.

The product has received an Environmental Product Declaration (EPD) following an assessment of the environmental impact of its life cycle.

Registration number: S-P-13561,  
The International EPD® System.

### ■ APPLICATIONS

SPECIAL MONOCOTTURA is suitable for interior and exterior wall and floor tile installations.

Adding DUROSTICK ACRYLIC EMULSION in the mixing water, at a ratio of 1:1, further improves its characteristics.

The improved adhesive is suitable for installing tiles of low absorbency, as well as for substrates subjected to temperature variations.

### ■ USE

#### 1. Surface preparation

The application surface has to be sound, clean and 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 either DUROSTICK ACRYLIC EMULSION or D-20, at a mixing ratio of 1:1 with

The technical specifications and directions of use contained in this technical data sheet 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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water. It is necessary to prime all drywall using either the micromolar stabilizer AQUAFIX or SOLVENT BASED PRIMER of DUROSTICK. Lightweight or else, unsound 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 or D-1, with 2-3 successive, crosswise coats to ensure the waterproofing of the substrate.

### 2. Application

Empty 25kg of the adhesive into a clean container with 6.0-6.5lt of cool water. 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 notched trowel and spread on the substrate evenly. 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.

### ■ 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.

### ■ 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.

### ■ STORAGE

•**25kg Paper bag with valve:** 12 months form production date.  
•**5kg Plastic bag:** 18 months form production date.  
Store in the 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 packaging or the Safety Data Sheet.

### ■ PACKAGING

Carton box with 4 pcs of 5kg each one on a 720kg pallet.  
Paper bag of 25kg on 1.500kg pallet.

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<b>TECHNICAL SPECIFICATIONS</b> (Measurement conditions 23°C and 50% R.H.)	
■ Form - Color	Cementitious mortar - White
■ Bulk density of dry mortar	1.35±0.05kg/lt
■ Water requirement	6.0lt water per 25kg mortar
■ Application temperature	From +5°C to +35°C
■ Temperature resistance	From -20°C to +60°C
■ Application thickness	Up to 10mm
■ Pot life	Approximately 4 hours*
■ Open time per EN 1346	20 minutes*
■ Time for minor adjustments	15 minutes*
■ Grouting	After 4-8 hours on wall, after 24 hours on floor
■ Foot traffic	After 24 hours
■ Delivery to use	After 10-14 days

<b>PRODUCT PERFORMANCES</b>	
■ Adhesion strength, per EN 1348, after:	
• 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>

\* Depending on the weather conditions  
(temperature, humidity).

**NOTE: The product exceeds the statutory requirements for C1 adhesive.**

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