



## Reinforced tile adhesive



### ■ PROPERTIES

Cementitious and flexible white adhesive for tiles and granite, fortified with acrylic resins. Its high plasticity and thixotropy distinguish the product for its high adhesive strength and zero vertical slip. It allows for coating applications of up to 12mm thick without 'sagging' and it has an extended open time. Exceptional resistance to moisture and frost. Classified C2TE S1 per EN 12004 and EN 12002. The measurements for the certification were performed in the accredited European institute TZÜS (No 0100-28453/28692).

### ■ APPLICATIONS

PLUS is suitable for installing low and non-absorbent tiles and granite of all types, in bathrooms, showers, fountains, exterior spaces with high moisture levels and floors subjected to loads and stresses. Suitable for heavy traffic areas such as car showrooms, airport terminals, shopping malls. Recommended for installations on existing mosaic floors or floor tiles. Adding DUROSTICK ACRYLIC

EMULSION in the mixing water, at a ratio of 1:1, further enhances its characteristics so as to meet the requirements of S2 class (highly deformable adhesive) per EN 12002.

### ■ 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 gypsum boards using the 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. Once the primer is dry, follow all balcony, terrace, bathroom, shower and swimming pool installations by coating the substrate



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with HYDROSTOP FLOOR, D-1 or D-1 FLEX, at 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 parts mortar (7.0-7.5lt water to 25kg mortar) and mix with a low speed, 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. Then, coat as much surface as is required to work for the next 15-30 minutes (depending on the weather conditions), thus avoiding skin formation. Finally, install the tiles in the selected position by tapping softly with a rubber mallet. When working with medium and large format tiles the application of the adhesive is done by the method of double coat application, on the substrate, but also on the tile (tile back buttering).

### ■ 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 trowel and the surface smoothness.

### ■ STORAGE

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

### ■ 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

Paper bag of 25kg on 1,500kg pallet.

### TECHNICAL SPECIFICATIONS

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

■ Form - Color	Cementitious mortar - White
■ Bulk density of dry mortar	1.30±0.05kg/lt
■ Slip per EN 1308	< 0.2mm
■ Water requirement	7.0lt water per 25kg mortar
■ Application temperature	From +5°C to +35°C
■ Temperature resistance	From -35°C to +90°C
■ Application thickness	Up to 12mm
■ Pot life	At least 7 hours
■ Open time per EN 1346	30 minutes
■ Time for minor adjustments	30 minutes
■ Grouting	After 4-8 hours on wall, after 24 hours on floor
■ Foot traffic	After 24 hours
■ Delivery to use	After 12-14 days

### PRODUCT PERFORMANCES

■ Adhesion strength, per EN 1348, after:	
• 28 days	≥ 1.55 N/mm <sup>2</sup>
• Thermal ageing at +70°C	≥ 1.30 N/mm <sup>2</sup>
• Water immersion for 21 days	≥ 1.40 N/mm <sup>2</sup>
• 25 freeze - thaw cycles	≥ 1.35 N/mm <sup>2</sup>
• Deformability S per EN 12002	2.5mm ≤ S < 5mm

The experimental measurements were performed per EN 12004, in the Chemical Laboratory of DUROSTICK and were confirmed by the measurements of initial type from the TZÜS (No 0100-28453/28692).

**NOTE: The product exceeds on average the statutory requirements for C2 adhesive.**

# PLUS



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<b>DUROSTICK S.A.</b> ASPROPYRGOS ATHENS PC:193 00 GREECE 12	
DoP No.: 007 <b>EN 12004:2007 + A1:2012</b>	
<b>PLUS</b> Improved deformable cementitious adhesive with reduced slip and extended open time. Interior - exterior use.	
- Reaction to fire: - Release of dangerous substances:	Euroclass A1 see MSDS
Bond Strength as:	
- Tensile adhesion strength: Durability for: - Tensile adhesion strength after heat ageing: - Tensile adhesion strength after water immersion: - Tensile adhesion strength after freeze-thaw cycles:	$\geq 1.00\text{N/mm}^2$  $\geq 1.00\text{N/mm}^2$ $\geq 1.00\text{N/mm}^2$ $\geq 1.00\text{N/mm}^2$

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