

# EXTRA POWER



## 100% Vinyl acrylic deformable tile adhesive



### ■ PROPERTIES

High performance, white cementitious adhesive, fortified with vinyl acrylic resins. Distinguished for its high thixotropy and flexibility, its zero vertical slip and its resistance to even constant moisture and frost. Once cured it is resistant to the creation of fungi. Allows for coatings of up to 20mm, without 'sagging', while it has an extended open time. Classified C2TE S2 per EN 12004 and EN 12002.

### ■ APPLICATIONS

EXTRA POWER is ideal for bonding larger size, low and non-absorbent tiles and granite, on external building facades. It is necessary for adhering very hard and resilient tiles, like klinker, gres, porcellanato, porcellanato smaltato and ceramic or glass mosaics. Distinguished for its resistance to

expansions and contractions indoors, related to radiant heating, as well as outdoor spaces, with strong temperature variations, like balconies, patios and terraces. Its durability and resilience makes it stand out for installations in areas with permanent moisture, such as swimming pools, fountains, bathrooms, showers, etc.

It is suitable for heavy traffic areas such as car showrooms, airport terminals, shopping malls, super markets, as well as dining rooms and public areas. It is ideal for every kind of stable substrate, such as cement screeds, brushable cementitious substrates, prefabricated concrete walls, existing tiles, terrazzo and mosaic, as well as marble, aircrete or gypsum and marble based top coats. Its high thixotropy allows for wall tile installations top down.

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### ■ 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 1part additive to 2 parts water or 1 part DUROMAX to 5 parts water. Follow all balcony and terrace, bathroom, shower and swimming pool applications by coating the substrate with HYDROSTOP FLOOR 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 rpm drill 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 weather conditions), thus avoiding skin formation. Finally, install the tiles in the selected position by tapping softly with a rubber mallet. The application of the adhesive in the case of large format tiles, is done by the method of double coating (on the substrate, but also on the tile).

### ■ USEFUL TIP

Installing tiles on high stress areas (balconies, terraces, swimming pools, garages) requires the use of high quality adhesives. This is because, besides the project assurance high quality adhesives provide, their cost is comparatively very small to the purchase

value of the tiles as well as their installation cost by qualified professionals.

### ■ 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. On floors with radiant heating systems, it is recommended to create expansion joints every 20m<sup>2</sup> and fill them with DS POLYMER sealant, available in 32 colors.

### ■ 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

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.

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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 20mm
■ Pot life	Approximately 7 hours*
■ Open time per EN 1346	30 minutes*
■ Time for minor adjustments	35 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	≥ 2.30 N/mm <sup>2</sup>
• Thermal ageing at +70°C	≥ 1.90 N/mm <sup>2</sup>
• Water immersion for 21 days	≥ 1.70 N/mm <sup>2</sup>
• 25 freeze - thaw cycles	≥ 1.55 N/mm <sup>2</sup>
■ Deformability S per EN 12002	S ≥ 5mm

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

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

<b>DUROSTICK S.A.</b> ASPROPYRGOS ATHENS PC:193 00 GREECE 07	
DoP No.: 009 <b>EN 12004:2007 + A1:2012</b>	
<b>EXTRA POWER</b> Improved, highly deformable, cementitious adhesive with reduced slip and extended open time, for internal and external tiling	
- Reaction to fire:	Class A1
- Release of dangerous substances:	see SDS
Bond Strength as:	
Initial tensile adhesion strength:	≥ 1.00 N/mm <sup>2</sup>
Durability for:	
- Tensile adhesion strength after heat ageing:	≥ 1.00 N/mm <sup>2</sup>
- Tensile adhesion strength after water immersion:	≥ 1.00 N/mm <sup>2</sup>
- Tensile adhesion strength after freeze-thaw cycles:	≥ 1.00 N/mm <sup>2</sup>

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