

# EXTRA POWER GEL



Flexible and resinous, thixotropic adhesive for tiles and natural stones



## ■ PROPERTIES

Cementitious, fine-grained tile adhesive, with high performance. The inorganic, amorphous silicates and the new technology resins contained in its composition, provide the mixture unique GEL properties, excellent thixotropy, workability and ease of application.

Classified C2TE S1 per EN 12004 and EN 12002.

- Zero shrinkage.
- Offers the possibility of adhering large size tiles.
- Strong adhesion and zero slip.
- Extremely extended open time for adhering and minor corrections.
- Particularly resistant to the cooling-thawing effect.
- Extremely resistant to moisture, frost, contractions and expansions and natural and mechanical stresses.

## ■ ADVANTAGES

- Wide variation in the process water rate from 28% to 34% without affecting the workability and the final performance of the adhesive.
- Fine-grained, suitable for adhesives with a small thickness of glue.
- Volume stability. It can be applied in thicknesses from 2mm up to 20mm, but also used for repairs and smoothing of the substrate before tiles installation.

## ■ APPLICATIONS

EXTRA POWER GEL is suitable for all types of tiles, from mosaic to very large tiles, but also natural stones. It is applied indoors and outdoors, on solid substrates, such as:

- Waterproofed surfaces with either elastomeric waterproofers or brushable cementitious
- Concrete, plaster or prefabricated concrete wall surfaces

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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- Verandas, terraces
- Spaces with permanent moisture, such as fountains, bathrooms, showers etc.
- Mosaics or tile refurbishments in heavy traffic areas.

EXTRA POWER GEL ensures the installation for all types of tiles and stones with minimal absorption, such as:

- Tiles of all sizes
- Glass mosaic, klinker, glazed gres
- Cotto, honed marble, artificial stones
- Any type of granite tiles, absorbent or else
- Cork and expanded polystyrene boards.
- Every type of marble, even green marble.

### ■ 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 board and plaster surfaces, 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. Smooth or non-absorbent surfaces, primed with quartz primer DS-290 of DUROSTICK.

Follow all balcony and terrace, bathroom and shower 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 product into a clean container with cool water at a ratio of 25kg mortar to 7.5lt water for a thixotropic adhesive or 25kg mortar to 8.5lt water for liquid adhesive. Mix with a low rpm drill until a lump free, homogeneous mass is created. Allow the mixture to mature for 5-10 minutes and 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 or other materials to be installed, 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).

### ■ 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. Following the same way, 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.

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## ■ 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 1,200kg 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	< 0.1mm
■ Water requirement for:	
• Thixotropic adhesive	7.5lt water in 25kg mortar
• Liquid adhesive	8.5lt water in 25kg mortar
■ Application temperature	From +5°C up to +35°C
■ Temperature resistance	From -30°C up to +90°C
■ Application thickness	Up to 20mm
■ Pot life	At least 7 hours
■ Open time per EN 1346	At least 30 minutes
■ Time for minor adjustments	25 minutes
■ Grouting	After 4-8 hours on wall, after 24 hours on floor
■ Foot traffic	After 24 hours
■ Delivery to use:	
• Light traffic	1-3 days
• Heavy traffic	2-5 days

## PRODUCT PERFORMANCES

Adhesion strength, per EN 1348, after:

• 28 days	≥ 2.00 N/mm <sup>2</sup>
• Thermal ageing at +70 °C	≥ 1.60 N/mm <sup>2</sup>
• Water immersion for 21 days	≥ 1.55 N/mm <sup>2</sup>
• 25 freeze - thaw cycles	≥ 1.60 N/mm <sup>2</sup>
Deformability S per EN 12002	2.5mm ≤ S < 5mm

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



**DUROSTICK S.A.**

ASPROPYRGOS ATHENS PC:193 00

**GREECE**

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DoP No.: 162

**EN 12004:2007 + A1:2012**

## EXTRA POWER GEL

Improved deformable cementitious adhesive  
with reduced slip and extended open time.  
Interior - exterior use.

- Reaction to fire:	Euroclass A1
- Release of dangerous substances:	see MSDS

Bond Strength as:

- Tensile adhesion strength: ≥ 1.00N/mm<sup>2</sup>

Durability for:

- Tensile adhesion strength  
after heat ageing: ≥ 1.00N/mm<sup>2</sup>

- Tensile adhesion strength  
after water immersion: ≥ 1.00N/mm<sup>2</sup>

- Tensile adhesion strength  
after freeze-thaw cycles: ≥ 1.00N/mm<sup>2</sup>

**DUROSTICK S.A.,**

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PAINTS & MORTARS

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