

# EXTRA POWER GEL



Flexible and resinous, thixotropic adhesive for tiles and natural stones



## ■ PROPERTIES

High performance cementitious, fine-grained tile adhesive. The inorganic, amorphous silicates and the advanced 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.

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

Registration number: S-P-13557,

The International EPD® System.

## ■ ADVANTAGES

- Fine-grained, suitable for installations that require a thin coat of adhesive.

- Volume stability. It can be applied in thicknesses from 2mm up to 20mm, but it can also be used for repairs and smoothing of the substrate before installing tiles.

- Zero shrinkage.

- Suitable to install large format tiles.

- Strong adhesion and zero slip.

- Extremely extended open time for installations and minor corrections.

- Particularly durable against the cooling-thawing effect.

- Extremely durable against moisture, frost, expansions and contractions, as well as natural and mechanical stresses and loads.

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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### ■ APPLICATIONS

EXTRA POWER GEL is suitable for all types of tiles, from mosaic to very large tiles, but also natural stones. Use it for both interior and exterior applications, on sound substrates, such as:

- Waterproofed surfaces with either brushable cementitious or elastomeric waterproofers.
- Concrete, plaster or prefabricated concrete wall surfaces.
- Balconies, patios, terraces.
- Spaces with permanent moisture, such as fountains, bathrooms, showers etc.
- Mosaics or tile restorations in athletic and swimming pools, heavy traffic areas etc.

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

- Ceramic tiles of all shapes and 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 either the ACRYLIC EMULSION or D-20 of DUROSTICK, at a mixing ratio of 1:1 with water. It is necessary to prime all cement boards 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.

Smooth or non-absorbent surfaces are primed with the quartz grip primer DS-290 of DUROSTICK. Follow all balcony and terrace, bathroom and shower, fountain and swimming pool applications by coating the substrate with HYDROSTOP FLOOR, D-1

or D-1 FLEX 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 7.5lt 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 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. When working with large format tiles, the installation 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. 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.

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### ■ 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 packaging or the 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	Approximately 7 hours*
■ Open time per EN 1346	30 minutes*
■ Time for minor adjustments	25 minutes*
■ Grouting	After 4-8 hours on wall, after 24 hours on floor
■ 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

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

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

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