

ELASTIC



Highly deformable adhesive for all types of tile & granite



PROPERTIES

One component, white cementitious adhesive, fortified with acrylic resins in powder form. It contains selected low water absorption aggregates. Its unique flexible bonding power ensures all installations against detachments caused by vibrations generated, either from digging equipment working in adjacent areas, light earthquakes or severe expansions and contractions. It remains unaffected by the presence of permanent moisture. Its high thixotropy allows coatings in thickness of up to 20mm without 'sagging', while it has an extended open time.

Distinguished for its exceptional adhesion and zero vertical slip, as well as its resistance to moisture and frost. Classified C2TE S2 per EN 12004 and EN 12002. (MIRTEC/Cert. No. 3355).

ADVANTAGE

ELASTIC does not require any kind of improving additive, due to its flexibility and exceptional properties.

APPLICATIONS

ELASTIC is suitable for interior and exterior installations over sound substrates, like:

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

ELASTIC ensures the installation of all types of ceramic 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 polyurethane boards.
- Every type of marble, even green marble.

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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 dry-wall 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. Follow all balcony, terrace, bathroom, shower and swimming pool applications by coating the substrate with HYDROSTOP FLOOR, at 2-3 successive, crosswise layers 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 (6.5-7.0lt water to 25kg mortar or 1.3-1.4lt water to 5kg mortar) and 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. 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 medium and large format tiles, is done by the method of double coating (on the substrate, but also on the tile).

HEPLFUL 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 16-20m². 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 20m² and fill them with DS POLYMER sealant, available in 32 colors.

CLEANING

Clean all tools with water, immediately after use

CONSUMPTION

3-5kg/m², 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 from production date.
- **5kg Plastic bag:** 18 months from 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 package or the Material Safety Data Sheet.

PACKAGING

- Carton box with 4pcs of 5kg each one on 900kg pallet
- Paper bag of 25kg on 1.200kg pallet

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

Form - Color	Cementitious mortar - White
Toxic	No
Bulk density of dry mortar	1.30±0.05kg/lt
Slip per EN 1308	< 0.1 mm
Water requirement	6.5lt water in 25kg mortar
Application temperature	From +5°C to +35°C
Temperature resistance	From -40°C to +90°C
Application thickness	Up to 20mm
Pot life	10 hours
Open time per EN 1346	30 minutes
Time for minor adjustments	45 minutes
Ageing resistance	Exceptional
Shrinkage per ASTM C596	Minimal
Grouting	After 4-8 hours on wall; after 24 hours on floor
Foot traffic	After 24 hours
Delivery to use	After 14 days

PRODUCT PERFORMANCES

Adhesion strength, per EN 1348, after:

- **28 days** ≥ 2.80 N/mm²
- **Thermal ageing at +70°C** ≥ 2.50 N/mm²
- **Water immersion for 21 days** ≥ 1.70 N/mm²
- **25 freeze - thaw cycles** ≥ 1.60 N/mm²

Deformability S per EN 12002 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 MIRTEC (Cert. No: 3355).

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



DUROSTICK S.A.,
 MANUFACTURING OF ADHESIVES, PAINTS & MORTARS
 ATHENS: ASPROPYRGOS, ATTICA, GR: 193 00, Tel: +30 211 60 03 500-599, +30 210 55 16 500, +30 210 55 98 350, Fax: +30 210 55 99 612
 THESSALONIKI: INDUSTRIAL PARK-SINDOS, S.B. 44, STREET, DA 10, GR: 570 22, Tel: +30 2310 795 797, +30 2310 797 365, Fax: +30 2310 797 367
 Email: info@durostick.com

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