

DUROPOXY



Two-component Epoxy based grout and Tile adhesive



PROPERTIES

Two-component, solvent-free tile adhesive and grout. Its formula is based on epoxy resins and selected quartz aggregates.

Available in 38 colors, similar to the colors of the cementitious grouts of DUROSTICK. Its selected colors ensure perfect color uniformity, without any fading or discoloration over time. Presents excellent resistance to acids, alkalis, strong detergents, most organic solvents and both chlorinated and sea (salt) water.

It has excellent workability and high adhesion to the sides of the tiles. It also presents absolute impermeability and resistance to stains. It is non-absorbent and does not favor bacteria growth, thus making it easy to clean, as well perfectly suitable for strict hygiene requirements. Due to its high thixotropy, it is suitable for grouting joint widths from 1-20mm, **without 'sagging'** on vertical surfaces and without air being trapped within its mass.

As adhesive, it is classified R2 per EN 12004, and as grout, it is classified RG per EN 13888.

APPLICATIONS

DUROPOXY is suitable for horizontal and vertical applications, both indoors and outdoors. Yields unique mechanical and chemical properties when installing but also grouting any type of tile. Necessary in areas such as food industries (meat-fish-vegetable-fruit), slaughterhouses, canning factories, dairy facilities, wineries, chemical laboratories, pharmaceutical companies, medical centers, commercial kitchens, car washes, public restrooms, swimming and athletic pools. DUROPOXY is also ideal for areas with increased humidity level, such as bathrooms and kitchens. **Use it to repair deteriorated and worn out cementitious grouts, even in small thicknesses.**

USE

Substrate preparation for tile installation - application:

Cementitious application surfaces must be clean, free from loose materials, dust, grease, oils, paint, etc. If necessary, sand using an electric sander with #50 sandpaper. Special applications

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might require sandblasting. Empty the entire liquid-B component (hardener), into the container with the A component (resin). Mix for about 5 minutes, using a low-rpm drill, with the appropriate attachment, until the complete homogenization of the two components. Using a notched trowel, apply the mixed compound on the substrate evenly. Install the tiles in the desired position.

Grouting tiles - application:

- **New tile lining:** Remove from the tile surfaces and grout joints any adhesive residues and dust. Fill the joints using a grouting float, by spreading and compacting the product, in a diagonal, to the joints, direction, without leaving any gaps and leftovers.

- **Regrouting over existing cementitious grout:** Redefine the final color by choosing one of the 38 selected colors of DUROPOXY.

a. Using the appropriate tool, the GROUT SCRAPER of DUROSTICK, remove 2-3mm of the existing cementitious grout. Clean the joint(s) from all the dust using a vacuum. **b.** Using a grouting float, fill the existing joints completely. **c.** Using a clean and wetted grouting sponge, smooth the new grout and remove the excess material from the tile surface. **The final cleaning of any residues is achieved using a clean and soft grouting sponge, wet only with water.**

NOTES

- Epoxy systems are sensitive to ambient temperature and humidity, until their final cure. Pot life is reduced with increased ambient temperatures. Dull or discolored spots appear on the surface and curing time increases at high humidity conditions.
- After mixing the two components, the mixture temperature increases.
- Pools with an ambient temperature of +20°C and above can be used after 2 days, while below +20°C, after 4 days.
- For application only in large horizontal surfaces, it can be diluted up to 5% with THINNER 201 of DUROSTICK, giving it better workability.
- After hardening, the product is harmless to health and the environment.

CONSUMPTION

- **For bonding:** approximately 1.75kg/m²/mm

- **For grouting:** 0.2-3.0kg/m², depending on the width and depth of the joint and the tile dimensions.

CLEANING

Clean all tools with water, immediately after use.

STORAGE

Store in dry and shaded places, for at least 14 months from production date.

SAFETY DIRECTIONS

The product is classified as irritant. It is recommended to keep away from reach of children. Before use, read the cautions on the product packaging or the Material Safety Data Sheet.

PACKAGING

Carton box with 12 pcs. of 1kg each one (A:950gr, B:50gr)

5kg container (A: 4,750gr, B:250gr)

TECHNICAL SPECIFICATIONS	
Form - Color	A (RESIN): Thick paste - 38 colors, B (HARDENER): Liquid - Honey color
Bulk density of mixed product	1.65±0.05kg/lt
Mixing ratio	19 parts A / 1 part B
Pot life	2 hours at 20°C, 1 hour at 40°C
Application temperature	From +10°C to +35°C
Temperature resistance	From -40°C to +110°C
Foot traffic	After 16 hours at 23°C
Shrinkage	Zero
Initial shear adhesion strength, per EN 12004-2: 2017 (8.5.3.2)	2.0 N/mm ²
Shear adhesion strength after water immersion, per EN 12004-2: 2017 (8.5.3.3)	2.0 N/mm ²
Shear adhesion strength after thermal shock, per EN 12004-2: 2017 (8.5.3.4)	2.0 N/mm ²
Delivery to use	After 12-14 days
MECHANICAL STRENGTHS	
Strength after 28 days, per EN 196-1, in:	
• flexion	30.00 N/mm ²
• compression	63.50 N/mm ²

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DUROSTICK S.A. ASPROPYRGOS ATHENS PC:193 00 GREECE 12	
DoP No.: 20 EN 12004:2007+A1:2012 DUROPOXY Improved reaction resin adhesive	
- Reaction to fire:	Class F
- Release of dangerous substances:	see MSDS
Initial shear adhesion strength	≥ 2 N/mm ²
Shear adhesion strength after water immersion	≥ 2 N/mm ²
Shear adhesion strength after thermal shock	≥ 2 N/mm ²

DUROSTICK S.A.

MANUFACTURING OF ADHESIVES, PAINTS & MORTARS

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