

DUROGROUT FLEX



Flexible & oil repellent grout for tile & marble 1-8mm



■ PROPERTIES

Flexible, antifrost, water repellent tile grout in powder form, with advanced new technology, flexible resins and special fillers. Distinguished for its high mechanical strength, it does not crack, even under the most adverse environmental conditions. It exhibits excellent resistance to acids, alkalis, strong cleaning products, as well as certain solvents and chlorinated water. It has excellent workability and its adhesion to the sides of tiles is exceptional. It does not stain from watery and oily stains, such as water, coffee, oil, wine etc. It does not favour mold, fungi, and bacteria formations.

Classified CG2/WAr according to EN 13888.

■ ADVANTAGES

- Highly deformable and long lasting.

- Exceptional grip and easy application.
- Resists abrasion and cracks.
- Excellent waterproofing and breathability, preventing the penetration of moisture and its resulting damage.
- It does not discolor and does not absorb environmental pollutants.
- Does not require additives for increased flexibility.
- Light color floor grout is especially easy to clean due to its water repellency and waterproofing properties.

■ APPLICATIONS

DUROSTICK's DUROGROUT FLEX is the only sensible complement to the flexible adhesion of tiles (when using flexible adhesives with deformability classification S1 and S2). Suitable for grouting tile,

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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granite, and marble as well as glass mosaic. Also exceptionally suitable for replacing existing grout with hair line cracks and other damage. It fully restores and waterproofs perfectly, providing that the existing grout (*) is removed to a depth of at least 3mm and the substrate (bottom) of the joints is meticulously cleaned. It is suitable for interior and exterior use and for areas subjected to strict hygiene standards. Ideal for grouting tiles on terraces, roofs, substrates with underfloor heating systems, gypsum boards and cement boards, generally areas subjected to thermal or mechanical stresses and vibrations (metal and wood lofts for example).

■ USE

1. Surface preparation

Remove from the tile surface all adhesive residues and clean the grout joints with a damp sponge. For exterior surfaces, the creation of expansion joints every 20m² is recommended. Prime the joints using PRIMER-PU and install the backer rod DS-265. After 2-3 hours, apply the elastomeric polyurethane sealant DUROFLEX-PU to fill the joints. Also the creation of perimeter expansion joints, 5-8mm wide, both indoors and out, is strongly recommended. Create expansion joints between the tiles and vertical surfaces, and fill in the same way as described above, thus reducing the compression of the joints from expansions and contractions.

2. Application

Empty the mortar into a clean container with cool water, at a ratio of 0.85-0.9lt of water to 4kg of 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 and mix periodically, without adding extra water. Apply the grout using a grouting float working diagonally towards the grout joints, without leaving any gaps or residue. Remove all residues using a slightly damp sponge, 5-10 minutes after application (depending on weather conditions). Finally, when the grout hardens, clean the tiled surface either by using a damp cloth. It is recommended to clean any grout residues, using the DUROSTICK ACID TILE CLEANER, but only after

20 days have passed from the grouting of the surface and always according to its instructions of use.

■ NOTES

- It is imperative to follow the mixing instructions and only add the appropriate amount of water, as indicated on the packaging.
- Avoid grouting at temperatures above 35°C when the surface is exposed to sunlight thus preventing cracking. If this is unavoidable, cover with wet burlap or polystyrene boards the still wet grouted surface.
- If the temperatures during grouting are between 5°C and 15°C, the wait time before cleaning is extended. In such cases, it is recommended to clean any residues within one hour of completing the application by first using a sponge to wet the surface and soften the grout, and then proceeding to the final cleaning.
- When working with rustic or absorbent cotto (terracotta) tiles, apply 2 coats of the waterproofing and oil repelling agent, DUROSTICK D-29 SPOT FREE or NANO PROOF MARMO DS-275, to facilitate easier cleaning and to avoid staining from the residues of the grout.
- When grouting interior surfaces using DUROGROUT FLEX, expansion joints per 20m² are not necessary. However, perimeter expansion joints are necessary in this case. For these applications, the use of the multipurpose elastomeric sealant and adhesive, DS POLYMER, is recommended.

■ CONSUMPTION

The following table shows the indicative consumption, depending on the width and the depth of the joint, as well as the dimensions of the tiles.

■ CLEANING

Clean all tools with water, immediately after use.

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■ CONSUMPTION

The following table is the indicative consumption, depending on the width and the depth of the joint, as well as the dimensions of the tiles.

TILE DIMENSIONS (cm)	JOINT WIDTH (mm)		
	2	5	8
2 x 2 x 0,38 (mosaic)	1300	-	-
5 x 5 x 0,40 (mosaic)	450	-	-
10 x 10 x 0,60	350	500	840
20 x 30 x 0,90	200	300	530
30 x 30 x 1	190	280	470
40 x 40 x 1	140	210	350
50 x 50 x 1	110	170	280
60 x 120 x 1,10	80	110	200

The consumption rates refer to gr/m²

■ STORAGE

Store in factory sealed packages, in dry and shaded places, for 8 months from production date.

■ SAFETY DIRECTIONS

The product contains Portland cement. Before use, refer to the cautions on the product packaging or the Safety Data Sheet.

■ PACKAGING

Carton box with 5 pcs of 4kg each one.

(*) The use of the GROUT SCRAPER of DUROSTICK to remove the existing cementitious grout will greatly facilitate the new grouting process.

TECHNICAL SPECIFICATIONS

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

■ Form	Cementitious mortar
■ Color	12 permanent colors with the ability to mix
■ Bulk density of dry mortar	1.20±0.05 kg/lt
■ Bulk density of fresh mortar	1.80±0.05 kg/lt
■ Water requirement	0.85 to 0.9 lt water to 4kg mortar, depending on the color
■ Application temperature	From +5°C to +35°C
■ Temperature resistance	From -30°C to +90°C
■ Pot life	25 minutes
■ Grouting time after tile installation	4 - 8 hours on walls, 24 hours on floors, 2-3 hours for fast setting adhesive on floors, 1 hour for fast setting adhesive on walls
■ Foot traffic	After 4 hours
■ Acid resistance	Excellent

PRODUCT PERFORMANCES

■ Strength after 28 days, per EN 12808-3, in:	
• flexion	5.50±1.00 N/mm ²
• compression	30.00±1.5 N/mm ²
■ Adhesion after 25 freeze-thaw cycles, per EN 12808-3, in:	
• flexion	5.50±1.00 N/mm ²
• compression	30.00±1.50 N/mm ²
■ Shrinkage per EN 12808-4	≤ 1 mm/m
■ Abrasion resistance per EN 12808-2	≤ 1.000mm ³
■ Water absorption per EN 12808-5	after 30 minutes: ≤0.1gr, after 240 minutes: ≤1.0 gr

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