LUX GROUTECH FMF 160

PORCELAIN GROUT

LUX GROUTECH FMF 160 is a coloured, polymer-modified, cement-based grout suitable for grouting tiles. It offers high mechanical strength, excellent colour stability, and a smooth, glossy finish. It provides water-repellent properties and helps prevent the growth of microorganisms, the formation of mould, and salt efflorescence stains on its surface. It is a fast-setting grout, classified as CG2 WA according to EN 13888, and is suitable for joints 1–8 mm wide. It is suitable for grouting both absorbent and non-absorbent tiles on various substrates, on both vertical and horizontal surfaces.



Advantages:

- High mechanical strength.
- Excellent colour stability.
- Excellent water-repellent properties.
- Helps prevent the growth of microorganisms, the formation of mould, and salt efflorescence stains on the surface.

TECHNICAL CHARACTERISTICS

Packaging:

Plastic bags
- 2 kg
- 5 kg

Application:

For interior and exterior use. Suitable for tile grouting on walls and floors.

Color:

See LUX GROUTECH FMF 160 color chart.

Storage:

Stored in its original sealed package, in dry environments at temperatures above 0°C for 24 months from its production rate.

Consumption:

~ 0,20– 2,0 kg/m^2 depending on the size of the tiles and the joints.

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FIELDS OF APPLICATION

Suitable for waterproofing joints on walls and floors, for interior and exterior use on:

- Ceramic tiles.
- Marbles.
- Granites.

Ideal for fast use in walls and floors.

SUBSTRATE PREPARATION

The joints must be clean and free from dust, dirt, oil, grease, friable materials, and loose particles. Any paint residues must be removed, as well as any remaining tile adhesive.

NOT RECOMMENDED

Not recommended for use in:

- Temperatures below 10°C and over 40°C.
- Relative humidity over 80%.
- During rain.
- Water leakages.
- When the tile adhesive is not fully cured.
- Outside the joint space.

PRECAUTIONS

Do not eat, drink, or smoke while using the product. Apply only in open or well-ventilated areas. Avoid breathing in the product. Protect your eyes and skin. In case of skin contact, wash thoroughly with soap and water. In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, and continue rinsing. Seek immediate medical attention, as special treatment may be required. Wear appropriate protective clothing and gloves. Contaminated clothing must be removed from the workplace. Wash thoroughly after handling the product. Read the information on the label and in the product's Technical Data Sheet before use. The product's Safety Data Sheet is available to professionals upon request.

APPLICATION

In a clean container, add 1.5–1.55 litres of clean water and gradually add the contents of one 5 kg bag of LUX GROUTECH FMF 160, mixing continuously with an electric mixer until a homogeneous mixture is obtained. The mixture remains workable for approximately 1 hour. After preparation, do not add more water to adjust the workability of the mortar, as this may reduce its strength and increase shrinkage.

Apply the grout to clean joints, free from adhesive residues and dust, using a rubber grout float. Spread the material diagonally across the joints to ensure they are completely filled and to remove excess grout. Any remaining excess material on the tile surface must be cleaned within 20 minutes. To do this, gently wipe the surface with a damp sponge to emulsify the residue. Using lukewarm water can facilitate cleaning. At higher temperatures, cleaning must be carried out more quickly.

Once fully hardened, the grout is harmless. At low temperatures, the product becomes less workable and setting times increase. Conversely, higher temperatures accelerate setting and reduce the available working time. The consumption of LUX GROUTECH FMF 160 varies depending on the dimensions of the tiles and the width and depth of the joints.

It can be calculated using the link below:https://www.thrakon.gr/calculator/

TOOLS AND MACHINE CLEANING

Once the grout has hardened, it is difficult to remove. Therefore, tools must be cleaned immediately after use.

COLORS ULTRA GROUTECH FMF 150 (Fine grain)					
No.	Color	No.	Color	No.	Color
601	White	641	Mouse grey	653	Tea tree
603	Beige	642	Black	654	Mint
631	Manhattan	643	Caramel	655	Green aesthetic
632	Pearl Grey	644	Brown	656	Anemone
633	Cement grey	645	Terracotta	657	Vanilla
634	Dark grey	646	Ceramic	658	Champagne
635	Almond	647	Chocolate	659	Sand brown
636	Pearl beige	648	Dark brown	660	Mocha
637	Taupe	649	Satin beige	661	Honey
638	Taupe grey	650	Fresh rose	662	Mustard
639	Olive grey	651	Blue		
640	Soil	652	Blue grey		

CONSUMPTION (kg/m^2) LUX GROUTECH FMF 160				
TILE DIMENSIONS (mm x mm x mm)	Joint width (mm)			
	2	4	6	8
200 x 200 x 8	0,30	0,59	0,89	1,18
300 x 300 x 8	0,20	0,39	0,59	0,79
600 x 600 x 9	0,17	0,33	0,50	0,67
400 x 400 x 9	0,11	0,22	0,33	0,44
20 x 20 x 9	1,11	2,22	3,33	4,44

Technical characteristics	Units	Standard	Value
Resistance to abrasion	mm^3	EN 12808-2	≤1000
Compressive strength after dry storage	N/mm^2	EN 12808-3	≥45
Compressive strength after freeze-thaw cycles	N/mm^2	EN 12808-3	≥15
Flexural strength after dry storage	N/mm^2	EN 12808-3	≥8
Flexural strength after freeze-thaw cycles	N/mm^2	EN 12808-3	≥3,5
Shrinkage	mm/m	EN 12808-4	≤2
Water absorption after 30 min	g	EN 12808-5	≤2
Water absorption after 240 min	g	EN 12808-5	≤5
Density of dry mortar	kg/l		1,5 ± 0,1
Density of hardened product	kg/l	EN 1015-6	1,8 ± 0,1
Density of fresh mortar	kg/l	EN 1015-9	1,6 ± 0,1
Working time	min	EN 1015-10	45
Water mixing ratio	ml water/100g dry mortar		30-31
Walking (after)	h		5

*Note: The measurements were taken in laboratory environment under normal temperature and relative humidity conditions (+23ºC, 50%). It is possible for them to vary depending on the conditions prevailing at the worksite (temperature, humidity, absorbability of the substrate).

The technical information and instructions contained in the present brochure and referring to the application and end use of Thrakon products are based on the up to now know-how and experience of the Company with regards to the products and are provided in good faith as long as such products are stored, used and applied as per Thrakon recommendations. Due to the inability, on our part, to directly inspect the conditions prevailing at the worksite as well as the application procedures of the product, the Company does not provide any guarantee with regards to the adequacy of its products for specific purpose while the Company shall not bear any legal responsibility based on the information stated in the present brochure or any other written, oral, or otherwise provided recommendations and instructions. The users of the products are advised to perform a limited surface testing of the products adequacy for the eventual application and use intentions. Thrakon reserves the right to modify the features of its products without prior notification. All orders shall be approved only following acceptance of the above and under the eventual Commercial Policy terms of the Company. The issuance of the present brochure voids any prior version.
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