ULTRA GROUTECH FMF 150

TILE GROUT

ULTRA GROUTECH FMF 150 is a coloured, cement-based grout suitable for grouting tiles. It is composed of cement, quartz sand, limestone fillers, and additives. ULTRA GROUTECH FMF 150 offers high mechanical strength and resistance to frost and moisture. It is classified as a CG2 WA grout according to EN 13888 and is suitable for indoor and outdoor use. The product is available in two types:

- Fine grain for joint thickness up to 5 mm.
- Coarse grain for joint thickness 5-20 mm.



Advantages:

- Produced with quartz sand.
- Strong adhesion on demanding substrates.
- Resistance to friction.
- Excellent workability.
- Quick application.
- Resistance to moisture and frost.
- Produced and tested according to European standard EN 13888.

TECHNICAL CHARACTERISTICS

Packaging:

Plastic bags

• 5kg

Application:

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

Color:

See ULTRA GROUTECH FMF 150 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:

~ 0,15 – 2,0 kg/m^2 depending on the size of the tiles and the joints.

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FIELDS OF APPLICATION

Recommended for grouting absorbent and non-absorbent tiles (e.g. granite tiles) on all common substrates, on horizontal and vertical surfaces, in dry and damp areas. Suitable for indoor and outdoor use.

SUBSTRATE PREPARATION

The substrate to be tiled must be level, free from loose materials and foreign substances, such as plaster residues, paint, and oils, and free from cracks. It must also be stable and free from shrinkage stresses and deformation. Furthermore, it must not be subject to vibrations.

NOT RECOMMENDED

Not recommended for use in:

- Gypsum substrate when there has not been priming.
- Absorbent substrate when there has not been priming.
- Glass, plastic, iron, wood.
- Heated floors.
- Pools, tanks.
- Floors with deformities and vibrations.

PRECAUTIONS

ULTRA GROUTECH FMF 150 contains cement, which reacts with water to produce an alkaline solution. For this reason, protect your eyes and skin. In case of contact, rinse thoroughly with plenty of water. In case of eye contact, seek immediate medical advice. Read the information on the product label and in the Technical Data Sheet before use. Wear appropriate protective clothing and gloves. The product's Safety Data Sheet is available to professionals upon request.

APPLICATION

In a clean container add:

- 1,05-1,10 liters of clean water for the fine grain
- 1,50-1,55 liters of clean water for the coarse grain

And gradually add the content of a 5 kg bag of ULTRA GROUTECH FMF 150, mixing continuously with an electric mixer until a homogenous slurry is formed. The mixture can be used for the next 1 hour. After the preparation of the mixture, the addition of water to correct the workability of the mortar is prohibited. This would reduce the strength and increase the shrinking of the grout.
After mixing, apply the ULTRA GROUTECH FMF 150 onto the surface and use a rubber spatula to assist the material to fill the joints, with diagonal and cross movements. Remove excess grout from the joints with a damp sponge. Once the grout has sufficiently set, rub the entire surface with a sponge to smooth the surface of the joints.
Following the application process, mop the entire surface of the tiles and remove any residual material. Avoid using detergents or other caustic substances until the grout has completely dried. Ensure that the temperature of the environment and substrate remains between 5°C and 35°C during application and for the following 24 hours. While the grout is still wet, it can be cleaned with water. When it hardens it can be removed with mechanical means only.
The consumption of ULTRA GROUTECH FMF 150 differs depending on the size of the tiles and the joints and can be calculated by following the link below:
https://www.thrakon.gr/calculator/

TOOLS AND MACHINE CLEANING

Once the grout has hardened, it is difficult to remove and can only be cleaned using mechanical means. Therefore, tools must be cleaned immediately after use.

COLORS ULTRA GROUTECH FMF 150 (Fine grain)					
No.	Color	No.	Color	No.	Color
301	White	341	Mouse grey	353	Tea tree
303	Beige	342	Black	354	Mint
331	Manhattan	343	Caramel	355	Green aesthetic
332	Pearl Grey	344	Brown	356	Anemone
333	Cement grey	345	Terracotta	357	Vanilla
334	Dark grey	346	Ceramic	358	Champagne
335	Almond	347	Chocolate	359	Sand brown
336	Pearl beige	348	Dark brown	360	Mocha
337	Taupe	349	Satin beige	361	Honey
338	Taupe grey	350	Fresh rose	362	Mustard
339	Olive grey	351	Blue		
340	Soil	352	Blue grey		

COLORS ULTRA GROUTECH FMF 150 (Coarse grain)					
No.	Color	No.	Color	No.	Color
530	Anemone	534	Cement grey	538	Blue grey
531	Almond	535	Taupe grey	539	Black
532	Manhattan	536	Mouse grey	501	White
533	Pearl grey	537	Dark brown	503	Beige

CONSUMPTION (kg/m²) ULTRA GROUTECH FMF 150 (Fine grain)					
TILE DIMENSIONS (mm x mm x mm)	Joint width (mm)				
	1	2	3	4	5
200 x 200 x 8	0,15	0,30	0,44	0,59	0,74
300 x 300 x 8	0,10	0,20	0,30	0,39	0,49
300 x 600 x 9	0,08	0,17	0,25	0,33	0,42
400 x 400 x 9	0,08	0,17	0,25	0,33	0,42

CONSUMPTION (kg/m²) ULTRA GROUTECH FMF 150 (Coarse grain)				
TILE DIMENSIONS (mm x mm x mm)	Joint width (mm)			
	5	10	15	20
200 x 200 x 8	0,86	1,72	2,58	3,44
300 x 300 x 8	0,57	1,15	1,72	2,29
300 x 600 x 9	0,48	0,97	1,45	1,94
400 x 400 x 9	0,48	0,97	1,45	1,94

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	≥15
Compressive strength after freeze-thaw cycles		N/mm^2	EN 12808-3	≥15
Flexural strength after dry storage		N/mm^2	EN 12808-3	≥3,5
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	Fine	kg/l		1,0
	Coarse			1,5
Density of hardened product		kg/l	EN 1015-9	
Density of fresh mortar	Fine	kg/l	EN 1015-9	1,8-1,9
	Coarse			1,9-2,0
Working time		h	EN 1015-10	1
Water mixing ratio	Fine	ml water/100g dry mortar		32,0-24,0
	Coarse			18,5-21,0
Walking (after)		h		12

*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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