Product properties sheet
Version : C' - 01/01/2012

FMF 150
TILE GROUT

CG2 ACCORDING TO **EN 13888**

DESCRIPTION

FMF 150 is a colored grout, a component, cementitious, modified with polymeric additives, suitable for grouting tile. Composed of cement, quartz sand, limestone fillers and additives. **FMF 150** has high mechanical strength and resistant to frost and moisture. Classified as type CG2 grout according to EN 13888 for indoor and outdoor use. Product in two types:
• Fine grain for joint thickness up to 5mm.
• Coarse grain for joint thickness 5-20mm.

FIELDS OF APPLICATION

Recommended for grouting absorbent and non-absorbent tiles (granites) on all normal substrate, in horizontal or vertical Surfaces in dry and damp locations. Suitable for indoor and outdoor use.

ADVANTAGES – FEATURES

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

SUBSTRATE PREPARATION

The substrate of the paving should flat, free from loose and foreign materials such as residues plasters, colors, oils, etc without cracks. The substrate must be stable and free from shrinkage and trends deformation. It should also not take vibration.

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APPLICATION

Suitable substrate are concrete, self-leveling floors, cement mortar lightweight concrete, bricks, aerated concrete, cement-based plasters και cement/lime plaster. The substrate of the paving should be flat free from loose and foreign material.
In a clear buckets add:

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

And gradually empty the contents of bag 5 Kg
Of product **FMF 150**, stirring continuously with an electric mixer, to obtain a homogeneous
Mass mortar. Leave the resulting mixture to mature 5 minutes and stir slightly again. The mixture is ready for use for the next 1 hour. After preparation of the mixture prohibited additional water to correct the workability of the mortar. This will reduce the strength and increase the shrinking.

Apply the **FMF 150** on the surface and with special rubber spatula assisting to penetrate into joints, with diagonal and cross movements. Clean the excess grout from the joints with a damp sponge. When the grout enough, rubbed the entire surface with a sponge and format the joint surface. Finally, after the grout has tightened grated and smooth the surface of the joints with a damp cloth, giving the final appearance. Follow, mopping the tile surface and disposal of waste material and pollutants. The use of detergents and other caustic it would be applied after complete drying on the grout. During the application and during the following 24 hours the temperature of the environment and the substrate should be between +5°C and +35°C. The grout when is still wet cleaned with water. When harden mechanically removed.

CONSUMPTION

The consumption of FMF 150 varies according to the type of tiles and the width of the joints. For the coarse grain grout is about 500 - 1500 g/m^2 and for the fine grain grout indicative (see table):

Dimensions tiles cm	Joint width mm	Consumption kg/m^2
15x22,5x0,5	3	460-470
5x5x0,8	3	1120-1130
30x30x0,8	3	325-340
20x20x0,8	5	480-500
41x41x0,8	5	295-310
30x30x0,6	5	340-380

PACKAGING - STORAGE

The product is packed ni bags of 5 kg and kept stored on wooden palets and in dry environment at temperatures above 0°C for 12 months from date of production.

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 vibration.

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ΧΡΩΜΑΤΑ

FMF 150 – Thin grain 0 – 5 mm

No	Color	No	Color	No	Color	No	Color
301	White	308	Manhattan grey	315	Wege	322	Yellow
302	Cream	309	Grey	316	Cotto	323	Pink
303	Beige	310	Dark grey	317	Crimson	324	Blue
304	Pearl beige	311	Anthracite	318	aqua marine	325	Black
305	Ivory	312	Mocha	319	Light blue	326	Veraman
306	Grey blue	313	Coffee	320	Green		
307	Light grey	314	Chocolate	321	Ocher		

FMF 150 – Coarse grain 5 – 20 mm

No	Color	No	Color	No	Color	No	Color
501	White	505	Ivory	511	Anthracite	516	Cotto
502	Cream	507	Light grey	513	Coffee	519	Light blue
503	Beige	509	Grey	515	Wege	525	Green

PRECAUTIONS

FMF 150 contains cement reacts with water, producing an alcaline solution. For this reason protect eyes and skin. In case of contact rinse with plenty of water. In caes of contact with eyes seek medical advice ammediately. Read the Information on the label and in the technical brochure of product before use. Wear appropriate protective clothing and gloves. The transit security product is available upon request at professionals.

ΤΥΠΟΣ CG2 OF EUROPEAN STANDARD EN 13888

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 30min	(g)	EN 12808 - 5	≤2
Water absorption after 240min	(g)	EN 12808 - 5	≤5
Density of dry mortar	(Kg/l)		1,0 / 1,54*
Density of hardened product	(Kg/l)	EN 1015 - 6	
Density of fresh mortar	(Kg/l)	EN 1015 - 9	1.8-1,9 1.9- 2,0*
Working time	(h)	EN 1015 - 10	1
Water mixing ratio	(ml water /100g dry mortar)		32 - 24 18,5 - 21*
Walking	(after h)		12

Note: *The measurements were taken in laboratory environment under a temperature of +23^{0}C, Relative humidity 50 % and without ventilation. It is possible for them to vary depending on the conditions prevailing at the worksite, such as temperature, humidity, ventilation, absorbability of the substrate.*

**FMF 150 Coarse grain 5 – 20 mm*

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