CHEMA FOAM

BUILD YOUR DREAM

CHEMA
TILE GROUT

a premixed cementitious powder, contains selected hydraulic binders,organic binder,waterproofing materials,and fine filler aggregates.
When mixed with the right quantity of water on site, the product is ready to apply for grouting



Product Data

Color	White - gray - Beige (Other colors are available upon request)
Packaging	20 kg
Storage	12 months in dry and suitable storage conditions.

Technical Data (at 25°C)

Description	Test standards	Unit	Values
Flexural strength test after 28 days dry storage.	BS EN 12808-3	N/mm^2	>5
Flexural strength test after freeze thaw cycles (25 cycles).	BS EN 12808-3	N/mm^2	>4
Compressive strength test after 28 days dry storage.	BS EN 12808-3	N/mm^2	>24
Compressive strength test after freeze thaw cycles (25 cycles).	BS EN 12808-3	N/mm^2	>21
Abrasion Resistance	EN 12808-2	mm^3	< 1900
Shrinkage	BS EN 12808-4	mm/m	<2
Water Absorption	BS EN 12808-5		At 30 min < 4 g At 240 min < 7 g
Working time			60 minutes at 25°C

CHEMA TILE GROUT

Suitable for filling all sizes of tile joints such as ceramic, mosaic, stone and marble in:
Kitchens, Swimmingpools, Bathrooms, ...etc.

AREAS TO USE

Filling spaces and tile joints between:



Ceramic | Mosaic | Marble

ADVANTAGES

- Easy to use and apply. Only requires the addition of water on site for ease of use.
- Offers high water tightness and adhesion properties to all types of tiles.
- Available in wide range of uniform colors.

MIXING RATIO



Powder
20 kg

Water
7 Litre

INSTALLATION



NOTES :

- The paste of Chema Filling mixed with water by sprinkling the powder on the water and stirring for 2-3 min,
- Allow the mix to stand about 10 minutes and remixed it for an additional 30 seconds without adding any additional water.
- The paste can be used immediately and within one hour after mixing.
- Spread the mixture over the tile joints and pressed it with sponge rubber.
- Excess grout shall be removed with the same tool After initial setting, clean the tile and remove all excess materials with a wet sponge.

OFFICE
11Obour Buildings - Salah Salem
Nasr City Cairo - Egypt.

FACTORY
10th of Ramadan
B4 industrial zone

NATIONAL RESEARCH CENTRE
TAHRIR St. DOKKI, CAIRO, EGYPT
Central Unit For Analysis And
Scientifical Services (CUASS)
Material Test Lab.

المركز القومى للبحوث
الدقى . القاهرة . جمهورية مصر العربية
وحدة التحاليل و الخدمات العلمية المركزية
معمل اختبار المواد

Test Report

Report No.	**MOI 3858 02 2024**
Client	**CHEMA FOAM CO.**
Authority & date	*Request Orders 21/2/2024*
Items Tested	**Chema tile grout , according to EN 13888**
Results	*The detailed test results are given on the following pages of this report (7 pages) .*
Report Typist	*** Mis. Naglaa Mohamed-Sara Abdel Reheam Noha Samir**
Test carried by	*** Mis . Fatma El Zahraa Fikry** *** H.Eng. Ahmed Said** *** Chem. Amr El Shafey** *** Dr. Abou El Ftouh Abd El Hakem**
Authorized by	**Prof. Dr. Mostafa Zaki Mostafa** *** The Supervisor of ceramics, Polymer and Solid Matter Department.** *** Management Representative and Quality Assurance Manager.**
Issue date	*16/4/2024*
Condition of Test & Issue	*The test speciemen was conditioned at 23 °C with a humidity of 60 % and the needed calibrations as well as balancing of the all used machines were always done .*

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٣٣٣٧١٣٦٢ - ٣٣٣٧١٦١٥
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To / CHEMA FOAM CO.

Dear Sir.,

With correspondence to your request dated 21/2/2024 concerning the testing sample of Chema tile grout , according to EN 13888 , We would like to inform you that the all following needed tests were carried out which namely:

1- Flexural strength test after 28 days dry storage according to EN 13888-2
2- Flexural strength test after freeze thaw cycles (25 cycles) according to EN 13888-2
3- Compressive strength test after 28 days dry storage according to EN 13888-2
4- Compressive strength test after freeze thaw cycles (25 cycles) according to EN 13888-2
5- Abrasion resistance test according to EN 13888-2
6- Shrinkage test according to EN 13888-2
7- Water absorption test after 30min according to EN 13888-2
8- Water absorption test after 4hrs according to EN 13888-2

We would like to inform you that the needed test was carried out taking into consideration the following conditions :

1- In all mechanical properties GALDABINI – QUASAR 600 – Made In Italy Universal Testing Machine was used This type has a self calibration , zero adjusting and automatic balance , which are done daily before testing or during testing this testing instrument is accompanied by a highly reliable system for evaluating the mechanical properties .
2-Measuring drum of sensitivity ± 0.01mm was used for dimensions evaluation.
3- Weighing Balance with tolerance + 0.0001 g was used in determining the weights .
4- All used Machineries and apparatuses were calibrated periodically

The following tables give the obtained results representing the sample delivered from your company .

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Test results on a sample of Chema tile grout

Produced by CHEMA FOAM CO.

1- Flexural strength test after 28 days dry storage

according to EN 13888-2

No.	Flexural strength (N/mm2)	The mean value (N/mm2)	EN 13888-1 limit (N/mm2)
1	5.13	5.17	≥ 2.5
2	5.21		
3	5.01		
4	5.32		
5	5.19		

2- Flexural strength test after freeze thaw cycles (25 cycles)

according to EN 13888-2

No.	Flexural strength (N/mm2)	The mean value (N/mm2)	EN 13888-1 limit (N/mm2)
1	4.13	4.02	≥ 2.5
2	4.27		
3	3.82		
4	3.89		
5	3.99		

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3- Compressive strength test after 28 days dry storage

according to EN 13888-2

No.	Compressive strength (N/mm2)	The mean value (N/mm2)	EN 13888-1 limit (N/mm2)
1	23.71	24.21	> 15
2	24.98		
3	24.61		
4	23.93		
5	23.82		

4- Compressive strength test after freeze thaw cycles (25 cycles)

according to EN 13888-2

No.	Compressive strength (N/mm2)	The mean value (N/mm2)	EN 13888 -1limit (N/mm2)
1	22.11	21.15	> 15
2	21.71		
3	20.91		
4	20.53		
5	20.49		

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Test results on a sample of Chema tile grout

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5- Abrasion resistance test according to EN 13888-2

Revolutions no.	*Volume of removed material (mm3)*	*EN 13888 -1limit (mm3)*
50	*1837*	*< 2000*

6- Shrinkage test according to EN 13888-2

No.	*Shrinkage (mm/m)*	*The mean value (mm/m)*	*EN 13888-1 limit (mm/m)*
1	*1.87*	*1.91*	*< 3*
2	*1.89*		
3	*1.97*		

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Test results on a sample of Chema tile grout

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7- Water absorption test after 30min according to EN 13888-2

No.	Water absorption (%)	The mean value (%)	EN 13888 -1limit (%)
1	3.61	3.68	≤ 5
2	3.72		
3	3.71		
4	3.69		
5	3.65		

8- Water absorption test after 4hrs according to EN 13888-2

No.	Water absorption (%)	The mean value (%)	EN 13888-1 limit (%)
1	6.11	6.50	≤ 10
2	6.07		
3	6.57		
4	6.94		
5	6.82		

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This report was given to you representing only the results for the testing sample of Chema tile grout , according to EN 13888 , Delivered from CHEMA FOAM CO. , These results and conclusions were given to you without any responsibility on ***THE CERAMICS, POLYMERS AND SOLID MATTER DEP.*** *of* ***THE MATERIAL TEST LAB*** *in* ***THE NATIONAL RESEARCH CENTRE*** *for pick up the samples to be tested .*

Head of Director of The Board of Central Depertment
for Scientifical Analysis and Tests
&
SUPERVISOR
OF CERAMICS, POLYMER AND
SOLID MATTER DEPARTMENT

PROF.DR. MOSTAFA ZAKI MOSTAFA

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