

FUGASTYLE®
CEM 1_8

Cement-based grouting for 1 to 8 mm joints, with fine finish and bright colour.
The formulation provides active protection that helps to prevent the growth of bacteria, fungi and mould, which can cause stains and deterioration of the grouting.

Product description

FUGASTYLE® CEM 1_8 is a grouting cement, single-component with high performance, for joints from 1 to 8 mm, type CG2 WA, which it allows, with applications as easy and effortless, to make joints with high abrasion resistance, excellent UV stability and reduced water absorption.
The active protection of FUGASTYLE® CEM 1_8 helps to prevent the growth of bacteria, fungi and mould, which can cause stains and deterioration of the grouting.
FUGASTYLE® CEM 1_8 prevents the grouting from fading over time, ensuring a colorfast and extremely bright finish.
FUGASTYLE® CEM 1_8 is water repellent and can therefore be used for swimming pools, tanks, etc., without being damaged by the water they contain.

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Main features

- Mould-inhibiting and fungicide
- Abrasion resistant, with high degree of hardness
- Bright shades that remain colorfast over time
- Water repellent
- UV resistant
- Frost proof

Fields of use

- FUGASTYLE® CEM 1_8 is a grouting cement for joints between all types of ceramic tiles, both indoors and outdoors, in tile laying woth 1 to 8 mm joints
- Grouting marble
- Grouting in swimming pools
- Grouting vitreous mosaic
- Fixing on heating floors

Product preparation

The surface to be grouted must be perfectly clean, and the joints free from excess tile adhesive. If polished vitrified porcelain stoneware or natural stone must be grouted, it is essential to test a small area to make sure that it is cleanable. By and large, it is better to avoid using grouting in a colour that evidently contrasts with the tiles (e.g. black on white) with this type of cladding.
It is advisable to dampen the tiles slightly before grouting in warm weather, especially if twice-fired tiles are being grouted. Bear in mind, however, that excess water in the joints can lead to various problems, for example: differences in colour between one area and another.

Blend FUGASTYLE® CEM 1_8 with 1.4 l. of clean water per 5 kg bag (approx. 26-28%) until mixture is creamy.
Use perfectly clean tools and a low speed blender (approx. 500 rpm) when preparing the mixture. It is of vital importance for the paste to be lump-free and perfectly uniform in colour. It is recommended use a mixture of PRG 10 previously diluted with water in a ratio: 1 l. PRG 10 + 5 l. water, instead of the water to blend the mixture if the flooring is heavily trafficked, on elastic substrates or for applying to façades and swimming pools.

Product application

Apply FUGASTYLE® CEM 1_8 with a rubber trowel and make sure that the joints are filled completely. Then, using the same squeegee, remove the excess sealant, making diagonal movements with respect to the joint. Once the grouting begins to harden, the surface can be wiped clean with a clean, damp sponge. After this operation, the joints must be homogeneous. Any traces left on the tiles can be removed easily the next day using a soft, dry cloth. If the mixture of PRG 10 + water is used instead of water, this operation must be done immediately after the surfaces have been cleaned with a sponge.

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FUGASTYLE® CEM 1_8

Theoretical consumption

The consumption of FUGASTYLE® CEM 1_8 depends significantly on the size and thickness of the tile and the width of the joint; in any case, for an estimate of the consumption it is recommended to apply the following formula for the calculation:

$A \times B \times ((C + D) / (C \times D)) \times 140 = g/m^2$

dove:
A: Joint thickness (in mm)
B: Tile thickness (in mm)
C: Tile width (in cm)
D: Tile length (in cm)

Product conservation

FUGASTYLE® CEM 1_8 is preserved for 24 months in dry place (aluminium package).

Notes

A whitish layer, that mainly consists of calcium carbonate and is commonly called bloom, sometimes forms on the surface of grouting made with cement-based materials. Bloom is caused by many factors that may interact with each other as the grouting dries.
The water used for the mixture is one of these, and becomes a harmful factor if too much is used or when various mixtures are prepared with different amounts of water.
The drying time also affects the colour shade to a considerable degree, as it is influenced by the temperature and humidity of the air, by the residue humidity in the materials used for fixing, such as adhesives, or substrates that are not yet fully dried.
Our advice is: dose the water used for the mixture in compliance with the instructions on the pack; avoid making lots of different mixtures; never stop grouting a room halfway and then continue with it the day after; always wait until the substrate and adhesive have completely dried before grouting.

Warnings

- Do not mix FUGASTYLE® CEM 1_8 with other substances
- The mixture must never be fluid
- First perform a cleanability test when using dark colours on light polished porcelain stoneware or on natural stone
- If the tiles are very absorbent, it is advisable to wet the surface before grouting
- Never interrupt the grouting operations for more than two hours in the same room or area
- It is advisable to blend the FUGASTYLE® CEM 1_8 with the mixture of PRG 10 + water, instead of water, for grouting in swimming pools
- We recommend do not use FUGASTYLE® CEM 1_8 when temperatures are below +5°C or above +35°C.

Specifications

Ceramic floor and wall tiles must be grouted using cement-based powder grouting with additives to prevent the growth of bacteria, fungi and mould, such as FUGASTYLE® CEM 1_8 made by Fornaci Calce Grigolin, used for filling joints from 1 to 8 mm.

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TECHNICAL DATA	VALUE	STANDARD
Appearance	fine powder	
Water in the mix	1,4 lt - 5 kg bag (approx. 26-28%)	
Curing time	3 min	
Pot life	*2 h	
Thermal resistance	from -30 °C to +80°C	
Abrasion resistance	≤ 1000 mm^3	UNI EN 12808-2
Bending strength after dry storage	6,0 N/mm^2	UNI EN 12808-3
Bending strength after freezing/ thawing cycles	6,0 N/mm^2	UNI EN 12808-3
Compressive strength after dry storage	30,0 N/mm^2	UNI EN 12808-3
Compressive strength after freezing/thawing cycles	28,0 N/mm^2	UNI EN 12808-3
Shrinkage	1,8 mm/m	UNI EN 12808-4
Water absorption after 30 min	0,3 g	UNI EN 12808-5
Water absorption after 240 min	0,8 g	UNI EN 12808-5
Resistence to the growth of bacteria S% (survival)	0%	
Degree of mould colonization C% (growth)	no visible growth	

TIME TO WAIT BEFORE GROUTING	
Floor with adhesive	*24 hrs
Floor with quick-setting adhesive	*4-6 hrs
Floor with dry-shake finish (mortar)	*8-10 days
Wall with adhesive	*5-6 hrs
Wall with quick setting adhesive	*2 hrs
Ready for use	*7 days
Set to light foot traffic	*24 hrs

*these times refer to a temperature of 23°C-50% R.H.
They become shorter with higher temperatures and longer at lower temperatures.

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CONSUMPTION TABLE

Tile size in cm	FUGASTYLE 1_8 CEM joint thickness			
	2 mm	3 mm	5 mm	8 mm
	joint theoretical consumption g/m²			
Glass Mosaic 2 x 2 x 0,38	1300			
Mosaic 5 x 5 x 0,4	450			
10 x 10 x 0,6	350	500	840	1350
7,5 x 15 x 0,7	400	600	980	1600
15 x 15 x 0,9	350	500	840	1350
12 x 24 x 0,9			790	1300
20 x 20 x 0,9	250	380	630	1000
20 x 30 x 0,9	200	300	530	850
30 x 30 x 1	190	280	470	750
30 x 60 x 1	140	210	350	560
40 x 40 x 1	140	210	350	560
50 x 50 x 1	110	170	280	450
60 x 120 x 1,1	80	110	200	310

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MOOD COLOUR CHART

	Colore	FUGASTYLE CEM 1_8 Box 20 kg
	G01 BIANCO	1102561001
	G02 OFF WHITE	1102561002
	G03 SILVER	1102561003
	G04 MANHATTAN	1102561004
	G05 GRIGIO	1102561005
	G06 GRAFITE	1102561006
	G07 CEMENTO	1102561007
	G08 CENERE	1102561008
	G09 FUMO	1102561009
	G10 ANTRACITE	1102561010
	G11 BASALTO	1102561011
	G12 NERO	1102561012
	G12 TOTAL BLACK	1102561013
	G14 SUGAR	1102561014
	G15 CIELO	1102561015
	G16 CELESTE	1102561016
	G17 OCEANO	1102561017
	G18 ZAFFIRO	1102561018
	G19 DANUBIO	1102561019
	G20 SALVIA	1102561020
	G21 VERDE	1102561021
	G22 ECRU	1102561022
	G23 VANIGLIA	1102561023
	G24 JASMINE	1102561024
	G25 CREMA	1102561025
	G26 BEIGE	1102561026
	G27 ANEMONE	1102561027
	G28 SABBIA	1102561028
	G29 TABACCO	1102561029
	G30 OCRA	1102561030
	G31 ROVERE	1102561031
	G32 LEGNO	1102561032
	G33 SIENA	1102561033
	G34 FUOCO	1102561034
	G35 TERRACOTTA	1102561035
	G36 CEDRO	1102561036
	G37 QUERCIA	1102561037
	G38 NOCE	1102561038
	G39 CACAO	1102561039
	G40 MOKA	1102561040
	G41 MORO	1102561041
	G42 MARRONE	1102561042

The colours reproduced are indicative and do not constitute an absolute reference of correspondence

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Grigolin evoluzioni costruttive