

Torggler

Tiles and Natural Stone Installation

TILE GROUT ≤8 MM

Cement-based powder grout, classified as CG2 WA in compliance with EN 13888, for rigid filling of joints up to 8 mm.



- Single component
- Waterproof
- High abrasion resistance
- Wide range of colours



APPLICATION AREAS

- Grouting of joints up to 8 mm wide, indoors and outdoors, on walls and floors covered with ceramic tiles.
- Suitable for both dry and very humid environments.

TYPE OF MATERIAL TO BE LAID

- Single-fired
- Double-fired
- Klinker
- Porcelain and glazed stoneware
- Vitreous ceramic mosaic
- Natural, artificial and composite stone

FEATURES

Tile Grout ≤8 mm is a grout powder, based on high- strength cements, fine crystalline aggregates, selected pigments, and specific polymers and additives, available in a wide range of colours. After mixing with water, you

have a fine grout which is easy to use and which provides smooth, compact and impervious joints with excellent abrasion resistance. It resists freezing/thawing cycles.

WARNINGS

Do not use Tile Grout ≤8 mm in areas that require chemical resistance to acids and perfect impermeability: for example, dairies, butcheries, chemical factories, tanneries, and paper mills. Do not apply the product at temperatures below +5°C or above +35°C. Do not mix with dirty or murky water. Do not mix the product with other binders such as cement, hydraulic lime, gypsum, etc. the mix cannot be diluted with water once it has started setting. Do not use the mixed product when it has already started to set. therefore, always prepare quantities of mix which can be used within the pot life. Expansion joints should be sealed with a silicone sealant in the Torggler Sitol Silicon range.

INSTRUCTIONS FOR USE

Preparation

Allow the adhesive or foundation mortar used for gluing the tiles to harden properly according to the specifications of the technical data sheet. Mortars or adhesives that are not fully hardened may interfere with and alter the colour of Tile Grout ≤8 mm when it is applied. Thoroughly clean the joints to remove dust, flaking material and other dirt. Remove excess adhesive or mortar that has hardened. If the tiles and/or the substrates are highly absorbent or have been applied under very hot or windy conditions, wet the joints and then remove the excess water to avoid the formation of lightercoloured surface rings and stains. Highly porous, absorbent tiles such as cotto or certain types of natural stone should be treated with Promural Silicon before grouting so as to facilitate cleaning after the joints have been filled. If you want to use a dark colour on unglazed tiles or light-coloured natural stone, it is a good idea to make preliminary tests to ensure that no permanent marks will be left.

Mixing the product

Mix Tile Grout ≤8 mm with 26 – 28 % clean water (1.3 – 1.4 litres per 5 kg bag). The amount of water to be used for mixing varies considerably according to colour (see table of technical specifications). Pour almost all the mixing water required in a suitable container. Then add the powder product, slowly, and mix at the same time using a low speed electrical drill with mixer attachment. Once you have added all the powder product, pour in the rest of the water and mix until the product is smooth, creamy and free of lumps and has the required consistency. The right consistency varies according to the width of the joints to be grouted and on whether the product is to be applied to a wall or floor. Do not exceed the recommended quantity of water. Excessively fluid mixtures may leave surface rings and stains and are subject to excessive shrinkage upon drying, leading to reduced thickness, cracking and poor mechanical performance. Remove all non-mixed lumps of material from the walls and the bottom of the container. Allow the mixture to stand for 2 or 3 minutes, then mix again briefly. The mix prepared has a pot life of about 2 hours under normal conditions (at +20°C). Higher temperatures reduce the pot life, lower temperatures increase it. If you need to prepare two or more mixes for use on the same site, use the same quantity of water for each mix so that grouting will have a uniform colour.

Application

Fill the joints well using a rubber paddle and making sure not to leave voids or air pockets. Then scrape off the excess grout.

Cleaning

Wait for the grout to start setting (ca. 30 minutes), then clean the tiles and finish the surface of the joints with a soft, moist sponge that must be rinsed frequently in clean water. Do not clean the tiles before the grout has started to set otherwise part of the grout, still fresh, will be removed from the joints. To obtain a uniform colour on the entire surface, make sure the sponge is moistened to approximately the same extent all the time. A wetter sponge will leave lighter-coloured marks or stains or parts with a different colour shade. When the grout is dry, clean the tiles with a clean, soft, dry cloth. Grouted floors can be walked on after about 24 hours. The tools used for applying the grout may be cleaned with water before the grout hardens. Once hardened, you may only clean them using mechanical instruments.

Finishing

Stains or traces of grout, especially on tiles with a rough, absorbent surface, can be removed with Piastrellite Cleaner (acid detergent for tiles) at least 10 days after grouting. Do not use cleaners of this type on floors and walls that are sensitive to acids (e.g. marble).

TECHNICAL SPECIFICATIONS

MEASURED ON POWDER PRODUCT	
Consistency	fine powder
Apparent density	1,30 kg/litre
Grain size	0 – 0,15 mm
MEASURED ON FRESH MIX	
Mixing water	26 – 28 % equivalent to 1,2 – 1,3 litri per 5 kg bag
Mix density	1,90 kg/litre
Mix consistency	creamy and fluid
Mix pot life (at +20°C)	ca. 30 minutes
Application temperature	from +5 °C to +35 °C
MEASURED ON HARDENED PRODUCT	
Bending strength (according to EN 12808-3): after 28 days	8,0 N/mm ² (≥ 2,5 N/mm ²)
Bending strength (according to EN 12808-3): after freezing/thawing cycles	4,0 N/mm ² (≥ 2,5 N/mm ²)
Compression strength (according to EN 12808-3): after 28 days	30,0 N/mm ² (≥ 15,0 N/mm ²)
Compression strength (according to EN 12808-3): after freezing/thawing cycles	36,0 N/mm ² (≥ 15,0 N/mm ²)
Abrasion resistance (EN 12808-2)	500 mm ³ (≥1000 mm ³)
Capillary absorption (sec. EN 12808-5): after 30 minutes	0,5 grams (≤ 2,0 g)
Capillary absorption (sec. EN 12808-5): after 240 minutes	0,8 grams (≤ 5,0 g)
Water shrinkage (sec. EN 12808-4)	1,6 mm/m (≤ 3,0 mm/m)
Can be walked on	after 24 hours
Final hardening	after 7 days
Operating temperature	from –30 °C to +90 °C
Consumption	from 0,1 to 4,0 kg/m ²
Classification to EN 13888	CG2 WA
Color	Anthracite 7022, Bahama 1001, Black 9005, Brown 1019, Cement grey 7032, Chestnut 8028, Chocolate 8003, Grey 7030, Hazelnut 1011, Jasmin 1013, Manhattan 7035, Pearl grey 7040, Terracotta 3012, Vanilla 1015, White 9010, Beige
Packaging	bag
Packaging size	4x5 kg
Pallet	40 cardboards

CONSUMPTION

The consumption of Tile Grout ≤8 mm can vary from 0.1 to 5.0 kg/m². It depends on the size and thickness of the tiles and the width and depth of the joints. As a guideline, a 5 kg bag of Tile Grout ≤8 mm can be used to cover approx. 8 m² of ceramic floor or wall tiles with 250x250x10 mm tiles and 5 mm wide joints, while a 5 kg bag can be used to cover approx. 5.5 m² of floor or wall tiles. The table below shows some indicative consumption values, expressed in kg/m², for the product Tile Grout ≤8 mm White.

TILE SIZE Size (mm)	JOINT WIDTH (mm)		
	2	5	8
20 x 20 x 4	1,1	2,8	4,5
50 x 50 x 4	0,5	1,3	2,1
100 x 100 x 6	0,4	0,9	1,5
100 x 100 x 10	0,6	1,4	2,3
150 x 150 x 10	0,4	1,0	1,6
120 x 240 x 10	0,4	1,0	1,6
250 x 250 x 10	0,3	0,6	1,0
330 x 330 x 10	0,2	0,5	0,8
400 x 400 x 10	0,2	0,4	0,7
500 x 500 x 10	0,1	0,3	0,5

The values are expressed in kg/m².

Formula for calculating consumption
(it is recommended to foresee approx. +10% of material)

A = tile length (mm)

B = tile width (mm)

C = tile thickness (mm)

D = joint width (mm)

STORAGE

Tile grout ≤8 mm must be stored in a dry and protected place. Unopened in its original bags, the product can be stored for at least 24 months. KEEP AWAY FROM MOISTURE.

CERTIFICATIONS

LEGEND OF CLASSIFICATION ACCORDING TO EN 12004

C1	Normal cementitious adhesive
C2	Improved cementitious adhesive
F	Fast setting
T	Reduced slip
E	Extended open time
S1	Deformable
S2	Highly deformable

Classification and standards, in compliance with EU norms, for cementitious grouts - EN 13888

CG 1	Normal cementitious grout for filling joints	Minimum value of abrasion resistance correspondent ≤ 2000 mm ³ Minimum value of flexure resistance correspondent ≥ 2,5 N/mm ² Minimum value of compression resistance correspondent ≥ 15,0 N/mm ² Maximum value of shrinkage ≤ 3,0 mm/m Maximum value of water absorption ≤ 5,0 g (after 30 minutes) and 10 g (after 240 minutes)
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CG 2	Improved cementitious grout for filing joints	Minimum value of abrasion resistance correspondent $\leq 1000 \text{ mm}^3$ Minimum value of flexure resistance correspondent $\geq 2,5 \text{ N/mm}^2$ Minimum value of compression resistance correspondent $\geq 15,0 \text{ N/mm}^2$ Maximum value of shrinkage $\leq 3,0 \text{ mm/m}$ Maximum value of water absorption $\leq 2,0 \text{ g}$ (after 30 minutes) and 5 g (after 240 minutes)
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The information contained in this document is reported on the basis of our experience and knowledge; therefore, any recommendations and suggestions made are without any guarantee and must be verified before using the product by those who intend to use it, who assume all responsibility that may result from its use since the conditions of use are not under our direct control. In case of doubt, it is always advisable to make preliminary tests and/or ask for the intervention of our technicians. Torggler reserves the right to modify, replace and/or delete the items, as well as to change the product data in this document without prior notice; in this case the indications given here may no longer be valid. Always refer to the latest version of the data sheet, available at www.torggler.com. Version 18.08.2021.