

# Torggler

## Tiles and Natural Stone Installation

# TILE GROUT 2-15 MM

Cement based powder grout, single component, flexible and waterproof, classified as CG2 WA in compliance with EN 13888, for filling joints 2 to 15 mm wide.



- Single component
- Flexible
- Waterproof
- High resistance to abrasion
- Ideal for bathrooms and swimming pools
- Wide range of colours



### APPLICATION AREAS

- Flexible grouting of joints 2 to 15 mm wide, indoors and outdoors, on walls and floors covered with ceramic tiles.
- Swimming pools, tanks, terraces and any place that is subject to the frequent and/or continuous presence of water.
- Heavy duty pavings or flooring requiring high abrasion resistance.

### TYPE OF MATERIAL TO BE LAID

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

### FEATURES

Tile Grout 2-15 mm is a grout powder available in a wide range of colours, based on special, normal setting and hardening cements for dark colours and on quick setting and hardening cements for light colours, pure spheroidal quartz aggregates, synthetic resins, selected pigments and specific polymers and additives. After mixing with water, you have a fine grout which is easy to use and which, if applied correctly, provides smooth and compact, flexible, impervious and water-resistant joints with excellent abrasion resistance. It resists freezing/thawing cycles.

## **WARNINGS**

Do not use Tile Grout 2-15 mm in areas that require chemical resistance to acids: 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 Tile Grout 2-15 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 lighter-coloured 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 lightcoloured natural stone, it is a good idea to make preliminary tests to ensure that no permanent marks will be left.

### **Mixing the product**

Mix x-tile giunto 215 with 25% clean water (1,25 litres per 5 kg bag or 6,25 litres per 25 kg bag). 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 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 40 minutes 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.

### **Cleaning**

Wait a few minutes and then scrape off the excess grout. Wait for the grout to start setting (20 to 30 minutes after application, depending on the type and degree of absorption of the tiles and on environmental conditions), then clean the tiles and finish the surface of the joints with a soft sponge that must be only slightly moistened. Rinse the sponge frequently in clean water and wring it well before each use. 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 lightercoloured marks or stains or parts with a different colour shade. When the grout is dry, clean the tiles with a clean, soft, dry cloth.

### **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 3 days (for light colours) or 10 days (for dark colours) after grouting. Do

not use cleaners of this type on floors and walls that are sensitive to acids (e.g. marble). 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.

## TECHNICAL SPECIFICATIONS

MEASURED ON POWDER PRODUCT	
Consistency	fine powder
Apparent density	1,40 kg/litre
Grain size	0-0,3 mm
MEASURED ON FRESH MIX	
Mixing water	ca. 25% (equivalent to 1,25 litre per 5 kg bag and 6,25 litre per 25 kg bag)
Mix density	1,90 kg/litre
Mix consistency	creamy and fluid
Mix pot life (at +20°C)	approx. 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 <sup>2</sup> (≥ 2,5 N/mm <sup>2</sup> )
Bending strength (according to EN 12808-3): after freezing/thawing cycles	4,0 N/mm <sup>2</sup> (≥ 2,5 N/mm <sup>2</sup> )
Compression strength (according to EN 12808-3): after 28 days	30,0 N/mm <sup>2</sup> (≥ 15,0 N/mm <sup>2</sup> )
Compression strength (according to EN 12808-3): after freezing/thawing cycles	25,0 N/mm <sup>2</sup> (≥ 15,0 N/mm <sup>2</sup> )
Abrasion resistance (EN 12808-2)	130 mm <sup>3</sup> (≤ 1000 mm <sup>3</sup> )
Capillary absorption (sec. EN 12808-5): after 30 minutes	0,2 grams (≤ 2,0 g)
Capillary absorption (sec. EN 12808-5): after 240 minutes	0,4 grams (≤ 5,0 g)
Water shrinkage (sec. EN 12808-4)	1,5 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 0,2 to 5,0 kg/m <sup>2</sup>
Classification to EN 13888	CG 2 W A
Color	100 White, 150 Jasmin, 200 Manhattan, 205 Pearl grey, 220 Cement grey, 230 Grey, 260 Anthracite, 290 Black, 310 Vanilla, 320 Bahama, 330 Beige, 340 Hazelnut, 350 Brown, 360 Chocolate, 370 Terracotta, 380 Chestnut
Packaging	bag
Packaging size	4x5 kg, 25 kg
Pallet	40 cardboards, 50 bags

## CONSUMPTION

Consumption may vary from 0.2 to 5.0 kg/m<sup>2</sup>. It depends on the size and thickness of the tiles and on the width and depth of the joints. As a general rule, a 25 kg bag of Tile Grout 2-15 will cover approximately 28.0 m<sup>2</sup> of floor or wall covered by tiles measuring 400x400x10 mm with gaps 12 mm wide between them, while a 5 kg bag will cover approximately 5.5 m<sup>2</sup>. The table below shows approximate consumption, expressed in kg/m<sup>2</sup>.

TILE SIZE Size(in mm)	JOINT WIDTH (mm)						
	2	3	5	8	10	12	15
100 x 100 x 10	0,6	0,9	1,5	2,4	3,0	3,6	4,5
150 x 150 x 10	0,4	0,6	1,0	1,6	2,0	2,4	3,0
120 x 240 x 10	0,4	0,6	1,0	1,5	1,9	2,3	2,9
200 x 200 x 10	0,3	0,5	0,8	1,2	1,5	1,8	2,3
250 x 250 x 20	0,5	0,8	1,2	2,0	2,4	2,9	3,6
300 x 300 x 20	0,4	0,6	1,0	1,6	2,0	2,4	3,0
330 x 330 x 10	0,2	0,3	0,5	0,8	1,0	1,1	1,4
400 x 400 x 10	0,2	0,3	0,4	0,6	0,8	0,9	1,2
500 x 500 x 10	0,2	0,3	0,4	0,5	0,6	0,8	1,0
600 x 600 x 14	0,2	0,3	0,4	0,6	0,7	0,9	1,1

The values are expressed in kg/m<sup>2</sup>.


## STORAGE

Tile Grout 2-15 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 $\leq 2000$ mm <sup>3</sup> Minimum value of flexure resistance correspondent $\geq 2,5$ N/mm <sup>2</sup> Minimum value of compression resistance correspondent $\geq 15,0$ N/mm <sup>2</sup> Maximum value of shrinkage $\leq 3,0$ mm/m Maximum value of water absorption $\leq 5,0$ g (after 30 minutes) and 10 g (after 240 minutes)
CG 2	Improved cementitious grout for filling joints	Minimum value of abrasion resistance correspondent $\leq 1000$ mm <sup>3</sup> Minimum value of flexure resistance correspondent $\geq 2,5$ N/mm <sup>2</sup> Minimum value of compression resistance correspondent $\geq 15,0$ N/mm <sup>2</sup> Maximum value of shrinkage $\leq 3,0$ mm/m Maximum value of water absorption $\leq 2,0$ g (after 30 minutes) and 5 g (after 240 minutes)



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