

Torggler

Tiles and Natural Stone Installation

T 480

A deformable cement adhesive for all sizes of porcelain stoneware tiles and glazed tiles. Even for overlap. For indoor and outdoor use also on substrates subject to movement.



- Ideal for large formats
- Can also be used for overlapping
- Flexible and deformable



APPLICATION AREAS

- Indoor and outdoor bonding, on wall and floor, of ceramic elements of all types and sizes
- Bonding of ceramic elements of all types and sizes on substrates with a certain mobility, such as balconies, terraces, etc
- Indoor and outdoor bonding of glass mosaic and ceramic elements in tanks and swimming pools, if mixed with Flex diluted 1:1 with water
- Overlap bonding on ceramic or natural stone floors.

T 480 is suitable for floors and walls with heating/cooling system.

MAXIMUM ATTAINABLE THICKNESSES

10 mm

FEATURES

T 480 is a high-strength cement-based powder adhesive with high strength, selected aggregates, a high percentage of synthetic resins and specific additives, specially formulated for laying large-format porcelain and glazed stoneware and for laying ceramic tiles of all types and sizes and natural stone of all types and sizes, provided they are not sensitive to water or subject to staining and deformation, even for applications on substrates characterised by a certain mobility. Once mixed with water it creates a glue with excellent workability, excellent thixotropy, high flexibility and adhesiveness on all types of substrates, even on old ceramic floors and walls. Applied vertically it does not drip and does not let the tiles slip. The extended open time allows safe installation even in hot and windy climates. The deformability of the hardened adhesive allows the substrate movements absorption, so it can also be used for bonding floors subjected to high stress. It is resistant to frost-thaw cycles. T 480 is classified as class C2 TE S1 cement adhesive according to EN 12004.

INSTRUCTIONS FOR USE

Preparation for use

Substrates to be covered must be sufficiently dry, solid and regular, clean and sound, free of oil and grease, dust, crumbly material and dirt in general, and free of residues of paint film, and must be suitably cured and free of significant shrinkage. Indicatively, traditional cementbased screeds with normal setting and hardening must be cured for at least 28 days; cement-based or cement-lime mortar based plasters must dry for at least 14 days. Large imperfections and surface irregularities such as unevenness, cavities, gravel nests, eroded or deteriorated points, must be previously repaired and uniformed with self-levelling smoothing, for example Livellina 0-10, or with a specific skimming product, such as Multimix Evo or Rinnova. Particularly porous and crumbling substrates must be previously consolidated with Tile Primer.

Product preparation

Mix T 480 with 29-31% of clean water (equal to 7.25 – 7.75 litres per 25 kg bag) in the following way: in a special container pour almost all the necessary water, then add the powder product slowly, stirring at the same time while the mixture is forming using a low-speed drill with a specific propeller. Once all the powder has been added, pour in the remaining water and stir until the mixture is homogeneous and free of lumps, taking particular care to remove lumps of unmixed material from the walls and bottom of the container. Allow to stand for approx. 5 minutes, then mix briefly. The prepared adhesive remains workable in the mixing containers for about 5 hours under normal conditions (at 20 °C); higher temperatures shorten the workability time, while lower temperatures lengthen it.

TECHNICAL SPECIFICATIONS

POWDER PRODUCT VARIATIONS	WHITE	GREY
Consistency	powder	powder
Bulk density	1,23 kg/l	1,23 kg/l
Granulation	0 – 0,5 mm	0 – 0,5 mm
FRESH MIXTURE VARIATIONS	WHITE	GREY
Mixing water	29-31% (7.25-7.75 litres per 25 kg bag)	29-31% (7.25-7.75 litres per 25 kg bag)
Mixture density	1,47 kg/l	1,47 kg/l
Mixture consistency	pasty – trowelable	pasty – trowelable
Stability (EN 1308)	0,2 mm	0,1 mm
Mixture workability time (at +23°C)	approx. 5 hours	approx. 5 hours
Open time (EN 1346)	> 30 minutes	> 30 minutes
Recording time (DIN 18156 part 2)	30 minutes	30 minutes
Application temperature	from +5 °C to +35 °C	from +5 °C to +35 °C
HARDENED PRODUCT VARIATIONS	WHITE	GREY

Adhesion by traction (EN 1348): initial adhesion	>1,8 N/mm ²	>2,6 N/mm ²
Adhesion by traction (EN 1348): adhesion after water immersion	>1,8 N/mm ²	>3,1 N/mm ²
Adhesion by traction (EN 1348): adhesion after heat agein	>1,2 N/mm ²	>2,3 N/mm ²
Adhesion by traction (EN 1348): adhesion after freeze-thaw cycles	>1,5 N/mm ²	>2,5 N/mm ²
Transverse deformation (EN 1348)	2,6 mm	3,6 mm
Joints filling: on the wall	after approx. 8 hours	after approx. 8 hours
Joints filling: on the floor	after approx. 24 hours	after approx. 24 hours
Can be walked on	after 24 hours	after 24 hours
Final hardening	after 14 days	afdtter 14 days
Operating temperature	from -30 °C to +90 °C	from -30 °C to +90 °C
Consumption	from 3 to 8 kg/m ²	from 3 to 8 kg/m ²
Maximum achievable thickness	10 mm	10 mm
Classification according to EN 12004	C2 TE S1	C2 TE S1

Color	Grey, White
Packaging	bag
Packaging size	25 kg
Pallet	50 bags

CONSUMPTION

Consumption can vary from 3 to 8 kg/m². It depends on the type of tiles, the characteristics of the substrate and the laying method. Indicatively, if the substrate has been well prepared and uniformed, for mosaic and small size tiles (up to about 30×30 cm) the consumption is about 3-3.5 kg/m², while for medium and large size tiles, with marked profiling and for outdoor applications the consumption is about 5-8 kg/m².

STORAGE

Store T 480 in a dry and sheltered place. In the original closed bags it is kept for at least 12 months. PROTECT FROM HUMIDITY.

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 28.06.2021.