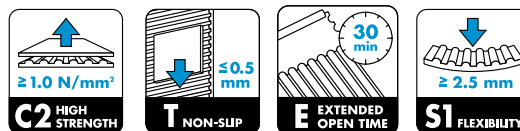


CM 17

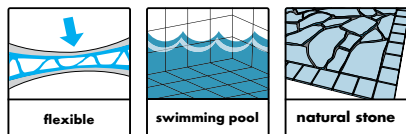
Super Flexible

High performance flexible thin bed mortar tile adhesive for installing ceramic tiles and slabs as well as natural stones



CHARACTERISTICS

- ▶ High bond strength
- ▶ Super flexible – special polymers modified
- ▶ For tile on tile application
- ▶ Balancing substrate deformations on critical surfaces like balconies, terrace etc
- ▶ Suitable for installation of large format tiles
- ▶ For indoor and outdoor areas
- ▶ Suitable for wet areas and swimming pools
- ▶ Easy application



PRODUCT SCOPE

CM 17 is used for the installation of:

- ceramic tiles and slabs
- tiles made of earthenware, stoneware and porcelain
- cotto tiles
- natural stones not susceptible to staining
- artificial stones
- tile installation over existing tiling, building boards and insulation boards.
- Tiles with <math>< 0.3\%</math> absorption, e.g. gres tiles even in larger formats (above 1 m²)

CM 17 provides a flexible adhesive bed and prevents shear stresses on difficult substrates.

For indoor and outdoor applications and for use in residential and industrial buildings, e.g. on:

- walls, heated floors, dry screeds, calcium sulphate screeds
- balconies, terraces and facades
- critical substrates such as existing tiles, strong and well adhered paint / waterproof coatings
- gypsum / plasterboards and fibre-reinforced plasterboards.

APPLICABLE STANDARDS

Tested and conforms to C2TES1 Class as per EN 12004



TDS_CM17_GCC_0420

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SUBSTRATE PREPARATION

CM 17 adheres to all solid, load bearing, clean, dry and moist substrates free of substances which may impair adhesion.

Indoors & Outdoors

- concrete (residual moisture $\leq 2\%$)
- cement screeds without floor heating, plasters, cement and lime plasters (residual moisture $\leq 1.5\%$)
- cement screed and concrete must be of recommended age as per the design

Indoors

- anhydrite substrates without floor heating (residual moisture below 0.5%) and gypsum (residual moisture below 1%) substrates – mechanically roughened, cleaned from dust and primed with CT 17
- aerated concrete (free from dust and primed with CT 17) Substrates must not be wet. Any existing dirt, loose layers and paint coating with low strength shall be mechanically removed. Absorbent substrates shall be primed with CT 17 and left to dry for at least 2 hours. Surface unevenness of up to 5 mm can be filled on the previous day using Polybit CM 17 mortar.

APPLICATION

Pour Polybit CM 17 into the precisely measured amount of clean water (25-29% by weight, 6.25 – 7.25L for 25 kg) and mix with a drill and mixer until a homogenous mass without lumps is reached. Leave for 3 min. and then mix again. Apply the mortar with a suitable notched trowel on the substrate. Size of trowel teeth depends on tile size. For indoor use, the mortar coverage (wetting) on the tile backside must be at least 65%. The floating-buttering method shall be used for larger tiles and for outdoor applications (i.e. additionally a thin layer of the mortar should be spread on the tile's backside, wetting equal or more than 90%). Place the tiles only during the open time of the adhesive. The width of grouts should be the same and should depend on tile size and exposure conditions. Fresh excess mortar can be removed with water; hardened material can only be mechanically removed. Grouting can be done after approx. 12 hours using Polybit grouts. Walkability is reached after 24 hours.

Expansion joints, joints at the corners of walls and floor and around sanitary equipment shall be filled with silicone sealant.

PLEASE NOTE

Work should be carried out in dry conditions at an air and surface temperature from 5°C to 45°C.

PRODUCT SAFETY: Contains cement. Strongly alkaline reaction with moisture, so protect skin and eyes. After contact wash immediately with plenty of water. After eye contact also seek medical advice.

OTHER INFORMATION

The manufacturer recommends using suitable products from the system solution range.

- for grouting, Polybit CE 33 grout is recommended for general purpose, Polybit CE 40 for aquastatic & flexible range coverage and Polybit CE 47 is recommended for stain & chemical exposed areas.
- for waterproofing in indoor application, a sealing film of Polyflex for rigid surface like concrete / plastered and CL 51 for gypsum/cement particle board are recommended with Polybit sealing tape.

In the case of laying stone tiles prone to colour changes, sample tests must necessarily be carried out in order to check whether the mortar causes no fading of the tiles. Should you need support or advice, please consult our technical service team.

TECHNICAL DATA

Base	Mixture of cements with mineral fillers and modifier	
Colour	Grey	
Bulk density	1.35±0.05 g/cc	
Mixing ratio	6.25 – 7.25L of water for 25kg	
Pot life	> 60 minutes	
Application temperature	5°C to 45°C	
Temperature resistance	-30°C to 80°C	
Walkability	approx. 24 hours	
Grouting	after 12 hours	
Tensile adhesion strength:		
- Initial	> 1.0 MPa	
- extended open time (30 mins)	> 0.5 MPa	
- after water immersion	> 1.0 MPa	
- after heat ageing	> 1.0 MPa	
- after freeze-thaw cycles	> 1.0 MPa	
Slip	< 0.5 mm	
Transverse deformation	≥ 2.5 mm and < 5 mm	
Amount required:		
Tile size	notch depth	CM 17 [kg/m ²]
up to 10cm	4mm	1.6
up to 15cm	6mm	2.1
up to 25cm	8mm	2.7
up to 30cm	10mm	3.4
above 30cm	12mm	4.2
Shelf life	Up to 12 months from the production date when stored on pallets in covered & dry conditions and in original undamaged packages	
Packaging	25 kg paper bag	

All values given are subject to 5-10% tolerance

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards. The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23°C and 50 % relative air humidity at laboratory conditions unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.

