Ceresit

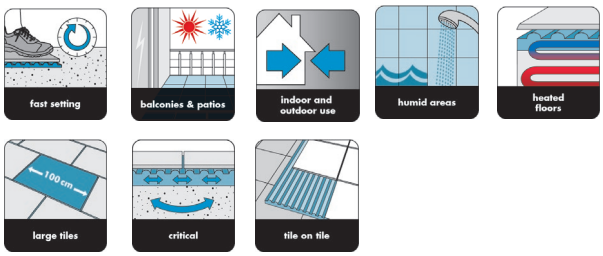
# CM 17

## »SUPER FLEXIBLE«

## Flexible thin bed mortar tile adhesive for installing ceramic tiles and slabs as well as natural stones

### CHARACTERISTICS

- For tile on tile application
- With visible fibers for strength and flexibility
- Balancing substrate deformations on critical surfaces like balconies, terraces, etc.
- For difficult substrates like heated floors
- For large size tiles




### SCOPE OF USE

Ceresit CM 17 is used to laying ceramic, cement and stone tiles (except marble) on deformable substrates. Its features keep elastic connection with substrate which allowed to carry over shear stresses between tile and substrate. CM 17 is recommended to fixing tiles on walls, heated floors, facades, terraces, balconies, swimming pools and technological water tanks (no chemicals). Thanks to advanced adhesion it is recommended for tiles with absorption < 0,3% e.g. gres tiles even to big size tiles (above 1m2) and for fi xing tiles on critical substrates: such as existing tiles, strong and well adhere paint coatings, gypsum substrates, anhydrytes and cellural concrete. For fi xing tiles made of marble and other coarse grained stones it is recommended to use Ceresit CM 14 WHITE, CM 25 and CM 42 adhesive mortar.

### SUBSTRATE PREPARATION

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


Non-absorbent substrates, tiles, natural/artificial stone floors, firmly adhering coats and non-sanded mastic asphalt screeds must be primed with CT 19 Supercontact primer.

**Outdoor and indoor use:**
Plasters of mortar groups CII / CIII (at least 14 days old), cement screeds (at least 28 days old, residual moisture < 2 wt %) and concrete (at least 28 days old) can directly be covered with tiles. Concrete floors must be mechanically cleaned and prepared before installing tiles.

### APPLICATION

The content of the packaging should be poured to the measured amount of pure, cool water and mixed using a drill with a mixer until the homogenous mass without lumps is obtained. Wait 5 min. and mix again. If needed – a small amount of water should be added, and it should be mixed again. The mass should be spread with a suitable notch trowel on the

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substrate. Size of trowel teeth depends on tile size. The mortar should have a covering of 65% inside and 98% outside. Buttering floating method is recommended for larger tiles and outside areas.
Tiles cannot be steep in the water. Tiles should be lain down on the mortar till it's still sticky. Do not lay the tiles at the point of contact. The width of grouts should be the same and should depend on tile size and exploitation conditions. Fresh mortar can be removed with water, once hardened material can only be removed mechanically. Grouting not earlier than after 12 hours. Expansion joints, grouts in the walls' corners, in connection wall-floor, in sanitary equipments should be filled using Ceresit CS25 MicroProtect silicone.

## PLEASE NOTE

- Application should be performed in dry conditions with the ambient temperature from +5 to +25oC. All data refers to +23oC and relative humidity 50%. In different conditions it should be taken under consideration faster or slower material drying.
- CM 17 contains cement and reacts alkaline with water. Therefore, skin and eyes should be protected. In case of contact with eyes they should be rinsed with water and medical advice should be taken immediately.
- Ceresit CE 40 Aquastatic for grouting, on the surfaces exposed on chemical and mechanical aggression (balconies, terraces, communication ways) Ceresit CE 43 Grand'Elit.
- For anti-moisture insulation inside the buildings insulation coating Ceresit CL 51 should be used with insulation tape Ceresit CL 62. For external uses apply insulation coatings Ceresit CL 50 and tape Ceresit CL 152 should be applied.
- For additional protection of the grouts and ceramic tiles against dirt by mean of hydrophobic the surface, Ceresit CT 10 Silicone impregnate should be used.

## OTHER INFORMATION

Up to 12 months from the production date when stored on pallets in dry conditions and in original undamaged packages.

Apart from the information given here it is also important to observe the relevant guidelines, regulations and common standards of various organizations and trade associations. The afore mentioned characteristics are based on practical experience and applied testing. Confirmed properties and possible uses which go beyond those listed 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 unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed and that the product itself is subject to local conditions such as amount of water and hardening. A product from another production site may differ.

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 willful misconduct or gross negligence on our part or unless there is a case of personal injury or death or a case of liability under the Product Liability Act.

This technical data sheet supersedes all previous editions relevant to this product. Please be aware that this Technical Data Sheet only relates to a product manufactured in the specific relevant production site.

## TECHNICAL DATA

| | |
|---|---|
| Base: | mixture of cements with mineral filers and modifiers |
| Bulk density: | approx. 1.28 kg/dm$^3$ |
| Mixing ration: | 8.5 - 9L of water for 25kg |
| Temperature of application: | from +5 to +25°C. |
| Time of initial maturation: | approx. 5min. |
| Pot life: | approx. 2 hours |
| Open time (acc. to EN 12004): | adhesion ≥ 0,5 MPa |
| Slip (acc. to EN 12004): | ≤ 0,5 mm |
| Grouting: | after 12 hours |
| Adhesion (according to EN 12004):<br>- initial:<br>- after water treatment:<br>- after thermal aging:<br>- after freeze/thaw cycle: | <br>≥ 1,0 MPa<br>≥ 1,0 MPa,<br>≥ 1,0 MPa,<br>≥ 1,0 Mpa |
| Crosswise deformation (according to EN 12004): | ≥ 2,5mm and < 5mm |
| Resistance on temperature: | -30°C to +70°C |
| Reaction on fi re: | A2/A1$_{fl}$ |

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Assumed consumption (it concern even substrate, consumption depends on kind of substrate and the tiles):

| tile size | Dimension of trowel teeth [mm] | Amount of CM 17 [kg/m$^2$] |
|---|---|---|
| up to 10 cm | 4 mm | 1,5 |
| up to 15 cm | 6 mm | 2,1 |
| up to 25 cm | 8 mm | 2,7 |
| up to 30 cm | 10 mm | 3,2 |
| above 30 cm | 12 mm | 3,7 |

This product is compatible with standard EN 12004:2008.

| | |
|---|---|
| CE | Reaction to fire **E** |
| 0432 | Release of dangerous substances **see MSDS** |
| **Henkel AG & Co., KgaA**<br>**Henkelstr. 67, D-40589 Dusseldorf** | Bond strength, as:<br>Initial tensile adhesion strength **≥ 1.0 N/mm$^2$** |
| 12 | Based strength as:<br>Tensile adhesion strength after water immersion **≥ 1.0 N/mm$^2$**<br>Tensile adhesion strength after heat ageing **≥ 1.0 N/mm$^2$**<br>Tensile adhesion strength after Freeze-thaw cycles **≥ 1.0 N/mm$^2$** |
| 00037 | Durability, for:<br>Open time: tensile adhesion strength after no less than 20 min **≥ 0.5 N/mm$^2$** |
| EN 12004:2007+A1:2012 C2 TE S1 | Slip **≤ 0.5 mm** |
| Deformable cementitious adhesive with Improved characteristic, slip-resistance and extended open time | Deformable adhesive:<br>Transverse deformation **≤ 2.5 mm** |

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