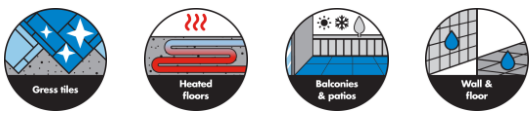
CM 14

»ELASTIC UNIVERSAL«

Universal fibre force thin-bed and middle bed tile adhesive for application of gres & ceramic tiles on wall & floor

CHARACTERISTICS

- For gres and cermic tiles, natural stone (non-sensitive) tiles and artificial stone tiles
- On heated floors, balconies, terraces, wet rooms and bathrooms
- On waterproof and moisture-proof layers
- For large and small tiles
- Slip resistant
- For inside and outside use
- Longer open time for safer application
- Easy workability thanks to plastified consistency



SCOPE OF USE

Ceresit CM 14 adhesive mortar serves for laying gres and other ceramic, cement and natural stone (colour-fast) tiles, indoors and outdoors as well as on deformable substrates (e.g. floor heating). CM 14 mortar can be used in rooms exposed to water. It is recommended for floors with elevated functional loads: in shopping malls, staircases. The properties of the mortar allow for laying tiles on fibre-gypsum boards and plasterboards, on anhydrite screeds, gypsum and lightweight concrete substrates and Ceresit Waterproofing Sealing like CL 50, CL 51. The mortar's high adherence makes it recommendable for laying tiles also on critical substrates (only indoors).

SUBSTRATE PREPARATION

Ceresit CM 14 adhesive mortar can be applied on even, load-bearing and compact substrates, free of any substances that reduce adherence (such as: grease, bitumens, dust):

indoors and outdoors:
concrete (at least 3 months old, residual moisture 4% cement screeds (at least 28 days old, residual moisture < 2% plasters cement-lime plasters

- drywall panels – primed with Ceresit CT 17,
- strong paint coats with good adhesion, sanded with sandpaper, cleaned from dust, and primed with CT 17,
- anhydrite (moisture below 0.5% heated anhydrite below 0.3%) and gypsum (moisture below 1%) substrates – mechanically sanded, cleaned from dust, and primed with CT 17,
- cellular concrete, cleaned from dust and primed with CT 17,
- OSB panels and particleboard panels (thickness >25mm) - mechanically sanded and primed with Ceresit CN 94,
- existing ceramic and stone (only indoors) tiles – cleaned, degreased and primed with Ceresit CN 94.

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Henkel AG & Co. KGaA Deutschland
Henkelstraße 67 · 40191 Düsseldorf
Internet: www.ceresit.com
E-mail: ceresit.com@henkel.com

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- Substrates must not be wet. Any existing dirt, loose layers and paint coats with low strength must be removed mechanically. Absorbent substrates should be primed with Ceresit CT 17 and left to dry for at least 2 hours. Substrate unevennesses of up to 5 mm can be filled with CM 14 mortar one day prior. In the case of greater unevennesses and pits – Ceresit materials from the CN group should be used on floors and Ceresit CT 29 surfacer on walls.

APPLICATION

Pour the contents of the packaging into a container with a precisely measured amount of clean and cool water and mix using a drill with a mixer until a homogeneous mass without lumps is obtained. Leave for 5 min and then stir the mixture again. If necessary – add a small amount of water and stir once more. Spread the mortar onto the substrate with a suited notched trowel. The depth of the trowel's notching depends on the size of tiles. If a suitable consistency of the mixture is achieved and the size of the trowel's toothing is properly selected, a typical ceramic tile pressed against a vertical surface will not fall down and the mortar will cover at least 65% of the tile's bottom surface. When tiles are exposed to permanent moisture and freezing, a combined method needs to be used, i.e. an additional thin layer of the mortar needs to be applied on the fixing surface of the tiles. Do not soak tiles in water! Lay them on the mortar and press while the mortar is still sticky. Do not lay tiles butt jointed! Maintain an even width of joints, depending on tile size and conditions of their use. Fresh stains from the mortar can be rinsed with water, hardened stains need to be removed mechanically. Grouting can be performed no earlier than after 24 hours using Ceresit materials from the CE group. Expansion joints between tiles, joints at corners, floor-to-wall joints, and around sanitary equipment should be filled with Ceresit CS 25 MicroProtect silicone.

PLEASE NOTE

- Works should be performed under dry conditions, with air and substrate temperature from +5°C to +25°C.
- CM 14 contains cement and after mixing with water produces an alkaline solution. Therefore, you should protect your eyes and skin. In case of eye contact, rinse eyes thoroughly with water and consult a doctor.
- Ceresit CE 40 Aquastatic or Ceresit CE 43 Grand'Elit grouts should be used for grouting indoors and outdoors, also on terraces and balconies. In the case of substrates exposed to increased chemical and mechanical aggression, use Ceresit CE 43 Grand'Elit grout or better CE79 and CE89 Epoxy grouts.
- For indoor moisture-proofing layers, use Ceresit CL 51 sealing film. For outdoor use, we recommend Ceresit CL 50, CL 82 and CL 152 sealing tape.
- Dirt- and water-repellent silicone impregnation agent Ceresit CT 10 shall be used for additional protection of joints and ceramic cladding against staining.
- In the case where tiles made of stone prone to colour changes are laid, sample tests must be carried out in order to check whether the mortar causes no fading of the tiles.
- Up to 12 months from the production date if stored on pallets, under dry conditions, in original and undamaged packages.

OTHER INFORMATION

Should you need support or advice, please consult our advisory service for architects and craftsmen on the
contact information you will find on **the local Ceresit website.**

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.

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E-mail: ceresit.com@henkel.com

TECHNICAL DATA

Base:	mixture of cements with mineral filers and modifiers
Bulk density:	approx. 1.23 kg/dm3
Mixing proportion*:	7.0–7.5 l for 25 kg
Application temperature:	from +5°C to +25°C
Initial maturing time:	approx. 5 min
Pot life:	up to 2 hours
Application temperature:	from +5 to +25 °C

Reaction to fire (acc. to EN 12004 + A1): Class F

Adhesion according EN 12004 + A1
Initial tensile strength dry condition: ≥1.0 N/mm²
- after immersion in water) : ≥1.0 N/mm²
- after thermal ageing . ≥1.0 N/mm²
- after freeze/thaw cycles: ≥1.0 N/mm²

Open time: ≥ 30 min

Slip (according to EN 12004 + A1) ≤ 0.5 mm

Pointing:	after 24 hours
Temperature resistance:	from -30°C to +70°C
Hazardous substances see:	Material Safety Data Sheet

Approximate consumption (for even substrates; consumption can vary depending on the evenness of the substrate and the type of tiles):

tile size	Trowel notch depth	amount of CM 12 PLUS [kg/m²]
up to 10 cm	4 mm	1.4
up to 15 cm	6 mm	2.0
up to 25 cm	8 mm	2.6
up to 30 cm	10 mm	3.
above 30 cm	12 mm	3.6

* The product is compliant with the EN 12004:2007 standard.

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CE

19 Henkel Polska Operations Sp. z o.o.
02-672 Warszawa
ul. Domaniewska 41
Ceresit CM 14
01474
EN 12004:2007 + A1:2012
1488
All internal and external tiling

Reaction to fire	A1, $A1_{fl}$ Class
Bond strength expressed as:	Initial tensile adhesive strength ≥ 1,0 N/mm²
Durability of bond strength against climate/heat ageing action expressed as:	Tensile adhesion strength after heat aging ≥ 1,0 N/mm²
Durability of bond strength against water/humidity action expressed as:	Tensile adhesion strength after water immersion ≥ 1,0 N/mm²
Durability of bond strength against freeze-thaw cycles expressed as:	Tensile adhesion strength after freeze-thaw cycles ≥ 1,0 N/mm²

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