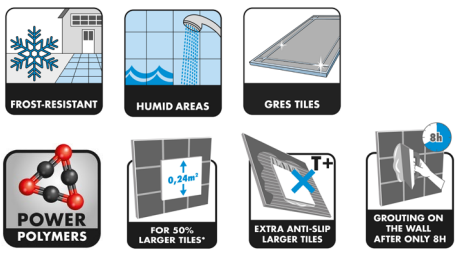
CM 11 PLUS

»CERAMIC & GRES«

Tile adhesive for gres & ceramic tiles

CHARACTERISTICS

- For ceramic and gres tiles
- For larger tiles up to 0,25m² and 60cm side-length
- Extra NON-SLIP with larger tiles
- Grouting on the wall after only 8h (gres tiles)
- Low-emission certified "EC 1 PLUS R"



SCOPE OF USE

Ceresit CM 11PLUS is a tile adhesive certified as C1T acc. to EN 12004 and low-emission EC1 PLUS R designed for:

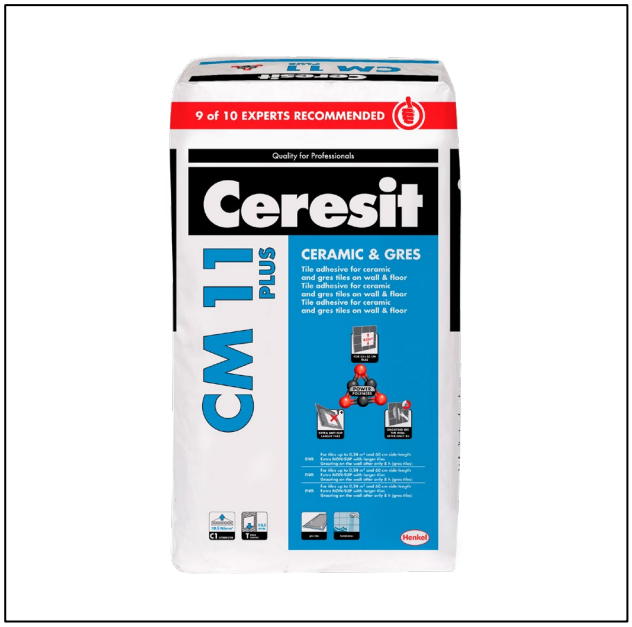
- gres tiles, ceramic tiles (glazed, terracotta) and natural stone tiles (colour-fast)
- tile size up to 0,25m² and max. 60cm side-length (eg. 60x40cm)
- indoor and outdoor use
- on horizontal and vertical surfaces
- on cement and cement-lime plasters, cement screeds, cement ground coats, concrete
- on primed gypsum and anhydrite substrates (inside)
- on sealing materials CL 51 (laying tiles 2 days after application) Humid areas (with periodic water penetration) e.g. bathrooms, kitchens, toilets

SUBSTRATE PREPARATION

Ceresit CM 11PLUS can be applied on even, load-bearing and compact substrates, free of any substances that reduce adherence (grease, bitumen, dust):

indoors and outdoors:

- concrete (at least 3 months old)
- cement screeds and plasters, cement and lime plasters (at least 28 days old, residual moisture 2 CM-%)



indoors:

- anhydrite (residual moisture below 0.5%) and gypsum (residual moisture below 1%) substrates - mechanically roughened, cleaned from dust and primed with CT 17,
- aerated concrete - freed 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 Cere-sit 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 CM 11 PLUS mortar. In the case of bigger unevenness and dents use Ceresit products from the CN group on floors and Ceresit CT 29 filler on walls.

APPLICATION

Pour CM 11PLUS into the precisely measured amount of clean water (see technical data) and stir with a drill and mixer until a homogenous mass without lumps is reached. Leave for 2 min. and then stir again. Apply the

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mortar with a suitable notched trowel. For indoor use, the mortar coverage (contact area) 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, contact area > 90%). Place the tiles only during the open time of the adhesive. Do not lay tiles butt jointed! Fresh excess mortar can be removed with water; hardened material can only be removed mechanically. Grouting on the wall can be done after 8 hours (in gres tiles) and after 16 hours (in porous tiles) using Ceresit grouts. Walkability is reached after 16 hours. Expansion joints, joints at the corners of walls and floor and around sanitary equipment shall be filled with Ceresit CS 25 MicroProtect silicone.

PLEASE NOTE

- Work should be carried out in dry conditions at an air and surface temperature from +5 to +25°C.
- PRODUCT SAFETY: Chromate-reduced. 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.
- For grouting, Ceresit CE 40 Aquastatic grout is recommended. On substrates exposed to mechanical impact Ceresit CE 43 and for chemical resistance CE79 grout shall be used.
- For waterproofing in indoor applications a sealing film Ceresit CL 51 and Ceresit sealing tape are recommended.
- 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 of laying stone tiles prone to color changes, sample tests must necessarily be carried out in order to check whether the mortar causes no fading of the tiles.

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.

TECHNICAL DATA

Base:	mixture of cements with mineral filers and modifiers
Bulk density:	approx. 1.45 kg/dm3
Mixing proportion*: *with addition of CC 83:	5.75 - 6.25l water per 25 kg 4.0 l of water + 2 l CC 83 per 25kg
Initial maturing time:	approx. 5 minutes
Pot life:	up to 2 h (90min)*
Open time (according to the PN-EN 12004 standard): adherence ≥ 0.5 MPa	
Creep (according to the PN-EN 12004 standard): ≤ 0.5 mm	
Application temperature:	from +5 to +25 °C
Grouting:	after 24 h
Adhesive tensile strength (according to the PN-EN 12004 standard): – initial: – after water immersion: – after heat ageing: – after freeze and thaw cycles:	 ≥ 0.5 MPa ≥ 0.5 MPa ≥ 0.5 MPa ≥ 0.5 MPa
Reaction to Fire:	A1/ A1fl
Temperature resistance:	from –30 to +70 °C

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Approximate consumption: 2 kg - 4.8 kg for even substrates (consumption can vary depending on the evenness on the substrate, trowel notch depth and the type of tiles):

tile size	notch depth	amount of CM 11 PLUS [kg/m2]	amount of CC 83* [l/m2]
up to 10 cm	4 mm	2.0	0.16
up to 15 cm	6 mm	2.7	0.22
up to 25 cm	8 mm	3.4	0.27
up to 30 cm	10 mm	4.2	0.38
above 30 cm	12 mm	4.8	0.43

* with the addition of the CC 83 elastic emulsion

Shelf life: Until 24 months since the date of production when stored on the pallets in dry conditions and original undamaged packaging.

The product is compliant with the EN 12004:2008 standard.

CE	Reaction to fire **A1/ A1fl**
1487	Release of dangerous substances **see MSDS**
Henkel Polska Sp. z o.o.	Bond strength, as:
02-672 Warszawa, ul. Domaniewska 41	Initial tensile adhesion strength **≥ 0.5 N/mm²**
13	Durability, for:
00007	Tensile adhesion strength after water immersion **≥ 0.5 N/mm²**
EN 12004:2007+A1:2012 C1 T	Tensile adhesion strength after heat ageing **≥ 0.5 N/mm²**
Normal setting cementitious adhesive with reduced slip	Tensile adhesion strength after Freeze-thaw cycles **≥ 0.5 N/mm²**
	Open time: tensile adhesion strength after no less than 20 min **≥ 0.5 N/mm²**
	Slip **≤ 0.5 mm**

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