



CM 12 EXPRESS

Fast setting tile adhesive for ceramic, gres and natural stones

CHARACTERISTICS

- ▶ For indoor and outdoor applications
- ▶ For heated floors
- ▶ Walkable after about 3 hours
- ▶ For large tiles < 0,8 m² also in public and commercial building
- ▶ Thin- and middle bed application up to 10 mm
- ▶ For non-sensitive Natural Stones



SCOPE OF USE

CM 12 Express is used for the high-strength, void free installation of ceramic tiles and slabs as well as for fine stoneware and cast concrete slabs, both indoors and outdoors, using the thin- and medium-method.

- ▶ It can also be used for bonding large-format tiles and slabs.
- ▶ Suitable for the discoloration-proof installation of non-translucent and non-sensitive natural stones.
- ▶ For heated floors, kitchens, bathrooms, balconies, terraces and in buildings with also intense traffic.

SUBSTRATE PREPARATION

Ceresit CM 12 Express adheres to all solid, load bearing, clean, dry and damp substrates free of any adhesion impairing substances. Remove coatings of inadequate load bearing strength.

Indoors:

Use CT 17 to prime calcium-sulphate-based screeds (gypsum/ anhydrite screeds, mechanically roughened and freed from dust, residual moisture ≤ 0.5 % CM, heated screeds ≤ 0.3 % CM) and other absorbent substrates.

Use CT 19 SuperGrip to prime non-absorbent substrates, tiles, natural/artificial stone floors and



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firmly adhering coatings. Mastic asphalt screeds (blinded with sand, no industrial use) do not need to be primed.

Outdoors and indoors:

Plasters of mortar groups P II/P III (at least 28 days old), cement screeds (at least 28 days old, residual moisture ≤ 2 % CM) and concrete (at least 3 months old) can direct be covered with tiles.

APPLICATION

Stir CM 12 Express into clean, clear water and until it is completely free of lumps (amount of gauging water: see „Technical data“).

Leave the mortar to mature for approx. 3 minutes and then stir again. If necessary - add a small amount of water and stir once more. Apply CM 12 Express according to the generally recognized codes of practice using the thin- or medium bed method resp. Buttering floating method. To ensure the void-free installation of tiles and slabs, the adhesive layer must have a sufficient thickness.



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The material shall be applied using a notched trowel selected according to the tile size, then the tile shall be pressed on the adhesive layer. Tiles should not be soaked in water. Tiles should be laid on the plaster layer within the open time frame and then pressed. The fresh material may be washed off, but the hardened one can only be removed mechanically. When cladding areas larger than 35 m² these should be provided with dilatation joints treated with flexible materials. Joints shall be left in 6x6 m² grids. When applied outdoors the adhesive shall also be applied on the ceramic tile to ensure the 100% coverage of the tile back side. At the end of the pot life, do not re-stir the mortar once it has stiffened.

PLEASE NOTE

- ▶ Works should be carried out in dry conditions, with the air and ground temperature from +5 °C to +25 °C.
- ▶ All the data refer to temperature +23°C and relative air humidity of 50%. Faster or slower material hardening may occur in different conditions.
- ▶ In the case of laying tiles made of stone that is prone to colour 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 aforementioned 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 cement with synthetic resins and additives

Bulk density: approx. 1.4 kg/dm³

Mixing ratios: 5.5– 5.75 l water for 25 kg

Open time: 20 minutes

Application time: approx. 50 minutes - up to 60 minutes

Application temperature: from +5°C up to + 30°C

Walkable/Groutable: after 3 hours

Adhesion according to: EN 12004: ≥ 1.0 N/mm²


Adherence in dry conditions

Adhesion after freeze/thaw: ≥ 1.0 N/mm²

Adhesion after ageing under the influence of heat: ≥ 1.0 N/mm²

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

Tile size	Notch depth	amount of CM 12 Express [kg/m ²]
up to 10 cm	4 mm	1.6
up to 15 cm	6 mm	2.2
up to 25 cm	8 mm	2.8
up to 30 cm	10 mm	3.4
Above 30 cm	12 mm	4.0

 1803 HENKEL ROMANIA OPERATIONS S.R.L. 1-7 Ioniță Vornicul St., District2, 020325, Bucharest, Romania 17 00000 EN 12004:2007+ EN 12004:C2F Normal setting cementitious adhesive with reduced slip	Reaction to fire	Class E
	Release of dangerous substances	see FTS
	Adhesion:	
	Initial tensile adhesion after 28 days:	≥ 1.0 N/mm ²
	Tensile adhesion after a short time interval max. 6 hours	≥ 0.5 N/mm ²
	Durability, for:	
	Tensile adhesion after immersion in water:	≥ 0.5 N/mm ²
Tensile adhesion after the influence of heat:	≥ 1.0 N/mm ²	
Tensile adhesion strength after Freeze-thaw cycles	≥ 1.0 N/mm ²	
Tensile adhesion after freeze/thaw cycles:	≥ 1.0 N/mm ²	



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