Ceresit

CM 90

EasyFlex PLUS

Flexible, dust-reduced thin-bed adhesive mortar for laying ceramic tiles and slabs on critical substrates

NEW!

GEV-EMICODE EC 1 sehr emissionsarm

Innovative Easy Technologie Wiegt weniger, schafft mehr!

Geprüft nach DIN EN 12002 S1

Flexmörtel

CHARACTERISTICS

- ▶ Up to 90 % less dust
- ▶ 30 % higher area coverage
- ▶ Consistency adjustable for wall or floor application
- ▶ Excellent workability
- ▶ Extra long open time

Test Certificate No.: 220005001-06, MPA, NRW/Germany

SCOPE OF USE

CM 90 is used for placing and laying ceramic tiles and slabs, fine stoneware and insulation boards. CM 90 ensures a flexible adhesive bed and prevents squeezing stresses on critical substrates. It is suitable for use on heated screeds, balconies, terraces and facades, especially on green precast concrete members (at least 3 months old). Before laying tiles, CM 90 can be used to repair and level uneven surfaces up to approx. 15 mm.

SUBSTRATE PREPARATION

CM 90 adheres to all solid, load-bearing, clean, dry and damp substrates free of substances which may impair adhesion. Coatings of insufficient stability must be removed.

Indoor use:

Use CT 17 / CN 94 to prime calcium sulphate surfaces (gypsum/anhydrite screeds, mechanically roughened and freed from dust, residual moisture < 0.5 % by weight, heated screeds < 0.3 % by weight), lightweight concrete, plasterboards and gypsum plasters (P IV a/b and P V, residual moisture < 1.0 % by weight), gypsum plasterboards, fibrous plasterboards, wood chipboards (at least V 100, thickness ≥ 22 mm), blockboards as well as all highly

absorbent substrates. Allow the priming coat to dry for approx. 4 hours.

Priming is not necessary on extruded polystyrene boards, tile support elements, tile coverings, natural and artificial stone floors, firmly adhering coatings, mastic asphalt (GE 10 / GE 15, roughened with sand, no industrial use). Thoroughly grind down paint coats (not chalking and firmly adhering) and free them from dust.

Outdoor and indoor use:

Plasters of mortar groups P II and P III (at least 28 days old), cement screeds (at least 28 days old, residual moisture < 2 % by weight, heated screeds < 1.8 % by weight) and concrete (at least 3 months old) can be directly covered with tiles.

APPLICATION

Mix CM 90 with clean, clear water and stir until the mixture is completely free of lumps. Leave to mature for

approx. 5 minutes and then stir again. If necessary, the mortar consistency can be adjusted with small amounts of water. Apply the mortar according to the recognized rules of the thin-bed method. Allow for a skin formation time of approx. 30 minutes. Use a notched spreader with a suitable toothing so that the raised mortar is at least 65 %.
Excess mortar can be removed with water while still fresh. Fully hardened material can only be removed mechanically. Wait approx. 12 hours before grouting.

PLEASE NOTE

CM 90 contains cement and produces a strong alkaline reaction with water. Therefore protect eyes and skin. If contact occurs, rinse thoroughly with water. In case of contact with the eyes, seek medical advice additionally.
For further information on product use please refer in particular to DIN 18 332, DIN 18 157, DIN 18 515 and the information sheets issued by the Central Association of the German Building Trade. Make sure to use other Ceresit products when laying tiles in areas exposed to chemicals and on substrates other than those specified above.
Observe the warnings-, safety- and waste advice given in the safety data sheet.

Should you need support or advice, please consult our advisory service for architects and craftsmen.
Phone: +49 (0) 211/797 106-07/-55/-59
Fax: 0211-798-1204

TECHNICAL DATA

GISCODE: ZP 1

Base:	synthetic resin modified cement combination with lightweight fillers and selected sands thin-bed mortar (chromate-reduced) DIN/EN 12 004, C2 TE
Bulk density:	approx. 0.90 kg/dm³
Mixing ratio:	approx. 7.0 l (non-slump) to 8 l (floors) of water for 15 kg
Maturing time:	5 minutes
Working time:	approx. 2 hours
Working temperature:	+5 °C to +30 °C
Open time:	at least 30 minutes
Correction time:	depending on substrate and floor covering material at least 15 minutes
Sagging:	< 0.10 mm
Ready for grouting:	after approx. 12 hours
Temperature resistance:	–30 °C to +70 °C
Adhesive pull strength with all storage types:	≥ 1.0 N/mm²

Amount required:

	Notch depth acc. to DIN 18 157 in mm	Amount required in kg/m²
	4	1.0
	6	1.3
	8	1.8
	10	2.1
	Medium bed	3.5

Shelf life:	approx. 12 months if stored tightly closed in a cool and dry place. Use up opened sacks as soon as possible.

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

Apart from the information given in this technical data sheet, it is also important to observe the relevant guidelines and regulations of various organizations and trade associations as well as the applicable DIN standards.
All data given was obtained at an ambient and material temperature of +23°C and 50 % relative humidity unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

CE

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Henkel AG & Co. KGaA
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EN 12004:2007+A1:2012 C2 TE S1

Deformable cementitious adhesive with improved characteristics, slip-resistance and extended open time

Reaction to fire	**E**
Release of dangerous substances	**see MSDS**
Bond strength, as:	
Initial tensile adhesion strength	≥ **1.0 N/mm²**
Tensile adhesion strength after water immersion	≥ **1.0 N/mm²**
Tensile adhesion strength after heat ageing	≥ **1.0 N/mm²**
Tensile adhesion strength after freez-thaw cycles	≥ **1.0 N/mm²**
Durabiliy, for:	
Open time: tensile adhesion strength after not less than 30 min	≥ **0.5 N/mm²**
Slip	≤ **0.5 mm**
Deformable adhesive: transverse deformation	≥ **2.5 mm**

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