

# CM 18

## EasyFlex

**Flexible thin-bed adhesive mortar for laying ceramic tile coverings and slabs on critical substrates**



### CHARACTERISTICS

- ▶ 30 % higher coverage
- ▶ very easy to use
- ▶ extremely long open time
- ▶ ready for grouting after 12 hours
- ▶ long correction time

**Test certificate nos. P-21001653-01, P-220001711-03-01, MPA, NRW/Germany**

### SCOPE OF USE

For placing and laying ceramic tile coverings, fine stoneware and insulating boards.

For ensuring a flexible adhesive bed and for avoiding squeezing stresses on critical substrates. For use on heated screeds, balconies, patios and facades, especially on young precast concrete members (at least 3 months old).

For repairing and levelling unevennesses of up to approx. 8 mm depth prior to tile laying.

### SUBSTRATE PREPARATION

CM 18 adheres to all solid, load-bearing, clean, dry and moist surfaces free of substances which can cause separation. Coatings of inadequate bearing strength must be removed.

#### Indoors:

Use CT 17/CN 94 to prime calcium-sulphate-bound screeds (gypsum/anhydrite mechanically roughened, freed from dust, residual moisture  $\leq 0.5$  wt-%, heated screed  $\leq 0.3$  wt-%), light-weight concrete, plaster-boards and gypsum plasters (PIVa/b and PV, residual moisture  $\leq 1$  wt-%), sandwich-type and fibrous plaster-boards, wood chipboards (min. V 100, thickness  $\geq 22$  mm), blockboards as well as all highly absorbent surfaces. Allow the priming coat to dry for approx. 4 hours. Extruded polystyrene tiles, tile support ele-



ments, tile coverings, natural/artificial stone floors, firmly adhering coatings, mastic asphalt (GE10/GE15, roughened with sand, no industrial use) do not need to be primed. Paintwork (not chalking and with good adhesion) must be thoroughly roughened and freed from dust.

#### Outdoors and indoors:

Tiles can be laid direct onto plasters of mortar groups P II/P III (at least 28 days old), cement screeds (at least 28 days old, residual moisture  $\leq 2$  wt-%), heated screeds ( $\leq 1.8$  wt-%) and concrete (at least 3 months old).

### APPLICATION

Stir CM 18 into clean, clear water until it is completely free of lumps.

Leave to mature for approx. 5 minutes, then mix the mortar again.

If necessary, carefully add water until the desired consistency is achieved. Apply the thin-bed 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 suitable toothing so that the raised mortar is at least 65 %. Fresh excess mortar can be removed with water, once hardened material can only be removed mechanically. Ready for grouting after approx. 12 hours.

## PLEASE NOTE

CM 18 contains cement and reacts with water, producing an alkaline solution. Therefore protect eyes and skin and rinse thoroughly with water if contact occurs. In case of contact with the eyes seek medical advice immediately.

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 (ZDB).

Use other Ceresit products for laying tiles in chemically stressed areas and on substrates other than those mentioned here.

Observe the warnings-, safety- and waste advice given in the safety data sheet.

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<b>00044</b>	
<b>DIN 12004:2007+A1:2012 C2 TE S1</b>	
<b>Deformable cementitious adhesive with improved characteristics, slip-resistance and extended open time</b>	
Reaction to fire	<b>E</b>
Release of dangerous substances	see MSDS
Bond strength, as:	
Initial tensile adhesion strength	≥ 1.0 N/mm <sup>2</sup>
Tensile adhesion strength after water immersion	≥ 1.0 N/mm <sup>2</sup>
Tensile adhesion strength after heat ageing	≥ 1.0 N/mm <sup>2</sup>
Tensile adhesion strength after freeze-thaw cycles	≥ 1.0 N/mm <sup>2</sup>
Durability, for:	
Open time: tensile adhesion strength after not less than 30 min	≥ 0.5 N/mm <sup>2</sup>
Slip	≤ 0.5 mm
Deformable adhesive: transverse deformation	≥ 2.5 mm

## TECHNICAL DATA

Base:	Plastic-modified cement combination with light fillers and selected sands. (chromate-reduced) Thin-bed mortar DIN/EN 12 004, C2TE.
Bulk weight:	approx. 0.90 kg/dm <sup>3</sup>
Mixing ratio:	approx. 8.5 l (stiff) to 9.5 l (floors) water for 18 kg
Maturing time:	5 minutes
Application time:	approx. 2 hours
Application temperature:	+5 °C to +30 °C
Open time:	approx. 30 minutes
Correction time:	depend on substrate and covering material approx. 15 min.
Creep:	≤ 0.10 mm
Groutable after:	approx. 12 hours
Temperature resistance:	-30 °C to +70 °C

Adhesive tension strength with all storage types:

≥ 1.0 N/mm<sup>2</sup>

Amount required:

	Notch depth acc. to DIN 18 157 in mm	Amount required in kg/m <sup>2</sup>
	4	1.1
	6	1.3
	8	1.8
	10	2.1
	medium bed	3.5

Shelf life:

Approx. 12 months if stored in a tightly sealed container, in cool and dry conditions. Use product in opened containers 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.

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