

# CM 14 EXPRESS

»ELASTIC UNIVERSAL«

Fast-setting tile adhesive for thin, medium and flow-bed application with long working and adjustment time

## CHARACTERISTICS

- ▶ Very long pot life (45 minutes)
- ▶ Walkable and groutable after only 2 hours
- ▶ Long open time
- ▶ Especially for large-format tiles, natural stones and slabs in public and commercial buildings
- ▶ Can be used as thin, medium and flow-bed mortar



## SCOPE OF USE

CM 14 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-, medium- or flow-bed method.

It can also be used for bonding large-format tiles and slabs. Suitable for the discoloration-proof installation of non-- translucent natural stones. It can also be used for bonding ungauged stones.

CM 14 EXPRESS sets rapidly; this counteracts the tendency of some covering materials to dip formation (known as curling). Suitable for the installation of tiles on heated floors. Also, suitable for repairing and levelling uneven substrates with depressions of up to approx. 20 mm depth prior to tile laying. Ideally suited for installing treads, risers and top



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steps as well as for windowsills, both indoors and outdoors.

## SUBSTRATE PREPARATION

CM 14 EXPRESS s 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  $\leq 0.5\%$  CM, heated screeds  $\leq 0.3\%$  CM) and other absorbent substrates. Use CT 19 SuperGrip to prime non-absorbent substrates, tiles, natural/artificial stone



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floors and 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 11/P III (at least 28 days old), cement screeds (at least 28 days old, residual moisture  $\leq$

2 % CM) and concrete (at least 3 months old) can directly be covered with tiles.

## APPLICATION

Stir CM 14 EXPRESS into clean water and mix until it is completely free of lumps (amount of gauging water: see "Technical Data"). Leave the mortar to mature for approx. 5 minutes and then stir again. Allow for a skin formation time of approx. 30 minutes. Apply CM 14 EXPRESS according to the generally recognized codes of practice using the thin-, medium- or thick-bed method resp. the buttering & floating method. To ensure the void-free installation of tiles and slabs the adhesive layer must have a sufficient thickness. At the end of the pot life, do not re-stir the mortar once it has stiffened.

## PLEASE NOTE

- ▶ Use CM 14 EXPRESS only in dry conditions and at temperatures of +5 °C to +30 °C.
- ▶ On waterproofed substrates and at low temperatures, a longer time is needed before foot traffic and grouting are possible.
- ▶ Fresh excess mortar can be removed with water; hardened material can only be removed mechanically.
- ▶ CM 14 EXPRESS is chromate-reduced. It contains cement and sets off an, alkaline reaction with water. Therefore, protect eyes and skin. If contact occurs, rinse thoroughly with plenty of water. In case of contact with the eyes, seek medical advice immediately.
- ▶ When installing tiles in areas exposed to chemical attack and on substrates other than those specified above, use other Ceresit products.

## 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:	Synthetic resin modified cement combination (chromate-reduced) with selected fillers.
Bulk density:	approx. 1.37 kg/liter
Mixing ratio:	For a 25 kg sock of CM 14 EXPRESS use approx. 4.0 l water (for wall application) to 6. 0 l water (for floor application)
Maturing time:	5 minutes
Open time:	> approx. 30 minutes
Walkable and groutable:	after approx. 90 minutes When used as flow-bed mortar: after approx. 120 minutes
Application temperature:	from +5 to +30 °C
Adhesive pull strength:	> 1.0N/mm <sup>2</sup>
Temperature resistance:	from -30 to +70 °C




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Quality for Professionals

Required amounts:	notch depth acc. To DIN 18 157 in mm	Consumption in [kg/m <sup>2</sup> ]
	6	2.1
	8	2.7
	10	3.3
B & F method		Approx. 4.0
Medium-bed		Approx. 5.6
Thick-bed		Approx. 1.15 kg/mm/m <sup>2</sup>

\* with the addition of the CC 83 elastic emulsion

Shelf life: Approx. 6 months if stored in a cool and dry place. Use up opened sacks as quickly as possible

 0432 <b>Henkel AG &amp; Co. KGaA</b> <b>Henkelstr. 67, D-40589 Düsseldorf</b> 10 00049 EN 12004:2007+A1:2012 C2 FTE <b>Fast setting cementitious adhesive with improve characteristics, slip resistance and extended open time</b>	Reaction to fire	E
	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 no less than 30 min	≥ 0.5 N/mm <sup>2</sup>	
Open time: tensile adhesion strength after 6 h	≥ 0.5 N/mm <sup>2</sup>	
Slip	≤ 0.5 mm	



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