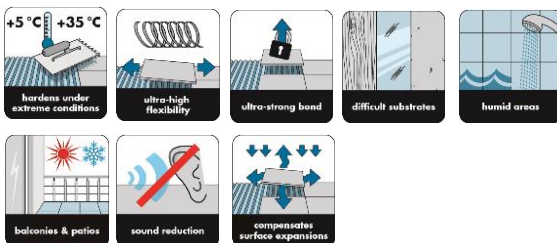


CM 77 ULTRAFLEX

Multi-functional, reactive adhesive for the installation of tiles, glass, metal, natural stones and other special coverings – especially on difficult substrates

CHARACTERISTICS

- ▶ Ready to use
- ▶ Able to absorb stresses
- ▶ For areas subject to light chemical attack
- ▶ For indoor and outdoor use
- ▶ Impact sound damping



SCOPE OF USE

- CM 77 UltraFlex is used for installing
- ▶ ceramic tiles and slabs, marble, artificial stones (agglomerated stones), natural stone slabs, clinker, porcelain, glass tiles and glass mosaic etc.
 - ▶ building elements, prefabricated components, profiles made of wood, plastic and metal.
 - ▶ CM 77 is suitable for indoor and outdoor use.

It ensures a reliable and firm bond, even on difficult substrates like metal, wood, glass, synthetic resin and coatings – usually without a primer.

It can be used on standard building substrates, also on freshly installed cement screeds (possible time: 3 to 5 days after installation, then again after 28 days). Thanks to its high flexibility, it can also be used on slightly vibrating surfaces (if used in combination with Ceresit CE 79 UltraEpoxy Industrial/CE 89 UltraEpoxy Premium).

CM 77 can be used for installing tiles and slabs on heated or cooled floor constructions. If used in combination with CL 69 UltraTight and CE 79



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Ultraepoxy Industria/CE 89 Ultraepoxy Premium, CM 77 is also suitable for areas subject to chemical attack, e.g. car washes, commercial kitchens breweries.

SUBSTRATE PREPARATION

CM 77 adheres to all sound, load-bearing, clean and dry substrates free of substances which may impair adhesion.

Coatings of insufficient load-bearing strength must be removed. CM 77 adheres without special pretreatment on metal, wood, concrete, plasters, cement screeds, XyloLite, fibrecement boards, chipboards, existing tile and artificial stone floors and on heated screeds.

Calcium sulphate screeds (gypsum/anhydrite, mechanically roughened and freed from dust, residual moisture ≤ 0.5 weight %, heated screed ≤ 0.3



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weight %) and mastic asphalt (roughened with sand, no industrial use) as well as PVC coverings must be primed with CL 71 UltraPox or CK 740 Epoxy Resin Primer.

Plasters of mortar groups CS II to CS IV (at least 28 days old), cement screeds (at least 28 days old, residual moisture ≤ 2 weight %) and concrete (at least 2 months old) can be covered directly with tiles.

Fresh cement screeds (3 to 5 days after installation) must be primed with CL 71 or CK 740. When used outdoors, the adhesive must be protected against moisture penetrating from behind, e.g. by installing the CL 69 UltraTight Waterproofing and Uncoupling Membrane.

APPLICATION

CM 77 UltraFlex is ready for use and can therefore be applied directly from the bucket. Apply the adhesive according to the generally recognized rules of the thin-bed method or use the buttering-floating method instead.

To ensure void-free bedding of the tiles and slabs, the adhesive layer must be of sufficient thickness. CM 77 cures by contact with moisture (air humidity). When installing large-format slabs of > 0.2 m², the adhesive layer should be sprayed with a thin water film to accelerate the curing process. Avoid the formation of puddles. If work is interrupted, close the bucket. After opening the container, use the adhesive up within 3 weeks. If a skin of dried-up adhesive has formed (e.g. due to improper storage), remove it but do not stir it in.

Cleaning

CM 77 is a silane-based adhesive that cures by reaction with moisture. Tools and tile surfaces cannot be cleaned with water. Pre-clean the tools and surfaces with dry cloths. Fresh adhesive residues can be removed with alcohol, oil or paint thinner. Hardened material can only be removed mechanically.

PLEASE NOTE

- ▶ Use CM 77 only in dry conditions and at temperatures of $+5$ °C to $+35$ °C. The optimum ambient and material temperature is 23 °C and 50 % relative humidity. At low temperatures, we recommended bringing the adhesive up to temperature before application.
- ▶ CM 77 is solvent-free according to TRG 610.
- ▶ During the curing process, methanol is released; therefore, ensure adequate ventilation during and after application and drying.
- ▶ The risk of medium- or long-term release of appreciable concentrations of volatile organic compounds (VOCs) into the ambient air is negligible.
- ▶ Eating, drinking and smoking should be avoided while working with the product. Wear protective gloves. In case of contact with the eyes, seek medical advice.

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

Material Base:	Silane-based reaction resin adhesive with mineral fillers and additives
Bulk density:	approx. 1.6 kg/dm ³
Colour:	White
Open time:	Approx. 45 minutes
Walkable and groutable:	After 24 hours*
Resistant to chemicals:	After 7 days



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Application temperature:	+5 to + 35 °C
Temperature resistance when fully cured:	-30 to + 60 °C
Vertical slip:	≤ 0.2 mm
Tensile shear strength acc. To EN 12003:	≥ 2 N/mm ² in all storage conditions
Impact sound measurement:	-10 db


Consumption:

notch depth in mm	Consumption in kg/m ²
3 mm	1.5
4 mm	1.8
6 mm	2.8
8 mm	3.4

Shelf life: tightly
 Approx. 12 months if stored closed in a dry place. Use up opened containers within 3 weeks.

Packaging unit: 8 kg bucket

* By misting with water, grouting and walking on after three hours it's possible.

 0432 Henkel AG & Co. KGaA Henkelstr. 67, D-40589 Düsseldorf 12 00053 EN 12004:2007+A1:2012 R2T Improved reaction resin adhesive with reduced slip	Reaction to fire	E
	Release of dangerous substances	see MSDS
	Bond strength, as:	
	Initial tensile adhesion strength	≥ 2.0 N/mm ²
	Tensile adhesion strength after water immersion	≥ 2.0 N/mm ²
	Tensile adhesion strength after heat ageing	≥ 2.0 N/mm ²
Tensile adhesion strength after Freeze-thaw cycles	≥ 1.0 N/mm ²	
Durability, for:		
Open time: tensile adhesion strength after no less than 20 min	≥ 0.5 N/mm ²	
Slip	≤ 0.5 mm	



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