Ceresit

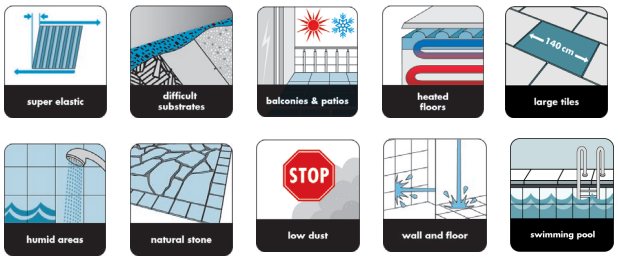
CM 49

»S2 PREMIUM FLEXIBLE«

Highly flexible, special white adhesive mortar for installing ceramic slabs with high safety reserves

CHARACTERISTICS

- For use on difficult substrates
- Adjustable consistency for wall and floor application
- For use on fresh cement screeds
- For indoor and outdoor use
- Low dust



SCOPE OF USE

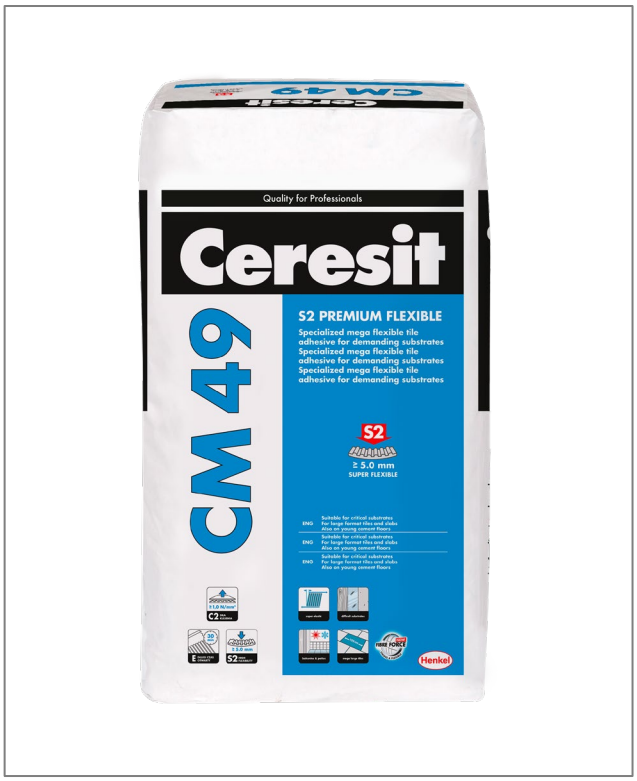
CM 49 is a highly deformable white adhesive mortar with a deformation of more than 5 mm (class S2) for the highly loadbearing, cavity-free installation of

- ceramic tiles and slabs as well as porcelain stoneware and Cotto
- cast concrete slabs
- natural stones with a low tendency to discolor glass tiles, glass mosaics and mosaics
- synthetic resin bonded slabs (agglomerate slabs).

CM 49 is suitable for indoors and outdoors using the thin- bed or medium-bed method.

Especially useful for the reliable installation of large tiles and slabs thanks to the very high adhesive tensile strength and the stress-absorbing properties. Also, for use on thin slabs made of porcelain stoneware with or without fiberglass mesh on the back.

CM 49 ensures a highly flexible adhesive bed and prevents shear stresses, especially on difficult substrates.



For indoor and outdoor use, e.g. on

- heated screeds and panel heating systems, cellular concrete, dry screeds, balconies, terraces and facades, especially on green precast concrete units (minimum age 2 months)
- fresh cement screeds (application of CM 49 is possible from reaching walk-on stability until the 5th day after screed installation)
- tile backer boards
- stiff wooden floor boards

CM 49 is suitable for repair and levelling work (surface irregularities up to approx. 10 mm) before installing the floor covering.

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Quality for Professionals

SUBSTRATE PREPARATION

CM 49 adheres to all sound, load-bearing, clean, dry and damp substrates free of substances which may impair adhesion. Remove coatings of insufficient bearing strength. Cracks in the screed must be closed by force-fit (e.g. with Ceresit CK 740 Epoxy Resin).

Indoor use:

Use Ceresit CT 17 or CT 19 to prime calcium sulphate screeds (gypsum/anhydrite screeds, mechanically roughened and freed from dust, residual moisture: ≤0.5 %, heated screeds ≤0.3 %), cellular concrete and other absorbent substrates.

Use CT 19 Contact Primer SuperGrip to prime nonabsorbent substrates, tiles, natural/artificial stone floors and firmly adhering coatings.

Freshly installed, clean cement screeds (3-5 days after installation) need not be primed before installing the floor covering.

Outdoor and indoor use:

Plasters of mortar groups P II and P III (at least 14 days old), cement screeds (at least 28 days old, residual moisture < 2 %, heated screeds< 1 .8 %) and in-situ concrete (at least 28 days old) can be directly covered with tiles.

APPLICATION

Mix CM 49 with clean, clear water and stir until the mixture is completely free of lumps. Leave the mortar to mature for approx. 5 minutes and then stir again.

If necessary, add small amounts of water until the desired consistency is reached.

Apply CM 49 according to the generally recognized rules of the thin-bed resp. medium-bed method or use the buttering-floating method. Allow for a skin formation time of approx. 40 minutes.

Use a trowel with a suitable notch size to ensure cavity free placement of the tiles and slabs. After the pot life has expired and the mortar begun to set, do not attempt to re-temper the mortar by adding water and stirring again.

PLEASE NOTE

- Use CM 49 only in dry conditions and at temperatures of +5°C to +30°C. During application make sure to observe in particular the information given by local instruction guidelines/ given by the Building Trade or relevant Association.
- On waterproofed substrates and at low temperatures, hardening will be delayed so that it takes longer until the surface is walkable and groutable.
- Fresh excess mortar can be removed with water; hardened material can only be removed mechanically.
- CM 49 has low chromate content. It contains cement and produces a strong 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 additionally. Use other Ceresit products when installing tiles in areas exposed to chemicals and on substrates other than those specified above.

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.

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TECHNICAL DATA

Chemical Base:	synthetic resin modified cement combination with selected fillers; thin-bed mortar, dust-reduced (low chromate content) DIN/EN 12 004, C2 S2 GISCODE ZP 1
Bulk density:	0.98 kg/dm^3
Mixing proportion*:	approx. 0.23 l (non-slump consistency for walls) to 0.26 l (easy-flowing consistency for floors) of water for 1 kg For 20 kg approx. 4.6 up to 5.2.
Vertical slip:	< 0.10 mm
Ready for grouting:	after approx. 12 hours
Full load-bearing strength:	after 7 days
Working temperature:	+5 to +30 °C
Temperature resistance:	-30 to +70 °C
Adhesive tensile strength with all storage types:	1.0 N/mm^2
Deformation:	≥ 5 mm (S2 (according to DIN EN 12002

Amount required:

	Notch depth acc. To DIN 18 157 in mm	Consumption in kg/m2
	4	1.3
	6	1.9
	8	2.5
	10	3.2
	Medium bed method	5.0

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

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Ceresit CM 49

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EN 12004:2007 + A1:2012

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All internal and external tiling

Reaction to fire	E Class
Bond strength expressed as:	Initial tensile adhesive strength ≥ 1,0 N/mm^2
Durability of bond strength against climate/heat ageing action expressed as:	Tensile adhesion strength after heat aging ≥ 1,0 N/mm^2
Durability of bond strength against water/humidity action expressed as:	Tensile adhesion strength after water immersion ≥ 1,0 N/mm^2
Durability of bond strength against freeze-thaw cycles expressed as:	Tensile adhesion strength after freeze-thaw cycles ≥ 1,0 N/mm^2

Dokumenty dostępne na stronie: https://www.henkel-dop.com

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