

# CM 25



## Glass Mosaic and Glass Tile Adhesive

White, fast-setting, flexible, fine thin-bed mortar for laying glass mosaic and glass tiles

### CHARACTERISTICS

- ▶ High instant tack
- ▶ Rapid hardening, flexible consistency
- ▶ Very fine-grained structure
- ▶ Easily workable
- ▶ Rapidly ready for grouting

### SCOPE OF USE

CM 25 is used for bonding glass mosaic, glass tiles, ceramic tiles and slabs, fine stoneware and insulation boards as well as for the discoloration-proof fixing of bright and translucent marble and other natural stone slabs on critical substrates, using the thin- and medium-bed method.

It is also suitable for fixing agglomerate slabs. Due to the deformation behaviour of Agglo slabs, it is in each case necessary to carry out a suitability test prior to use.

CM 25 is used to ensure a flexible adhesive bed and to prevent squeezing stresses on critical substrates. For use on heated screeds, balconies, terraces and facades, especially on young precast concrete members (at least 3 months old).

Also for repairing and levelling uneven surfaces prior to floor covering if the unevenness does not exceed approx. 10 mm. Especially recommended for laying glass mosaics where a uniform substrate colour is to be produced.

### SUBSTRATE PREPARATION

CM 25 adheres to all solid, load-bearing, clean and dry substrates free of substances which may impair adhesion. Coatings of insufficient load-bearing strength must be removed.

#### Indoor use:

Use CT 17 / CN 94 to prime calcium sulphate screeds (mechanically roughen gypsum/ anhydrite screeds and free them from dust; residual moisture content < 0.5



weight-%, heated screeds < 0.3 weight-%), lightweight concrete, plasterboards and gypsum plasters (P IV a/b and PV; residual moisture < 1 weight-%), sandwich-type plasterboards, fibrous plasterboards, chipboards (at least V 100, thickness ≥ 22 mm) 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 (surface roughened and freed from dust), tile support elements, tile coverings, natural/artificial stone floors, firmly adhering coatings, mastic asphalt (GE 10 / GE15, roughened with sand, no industrial use). Thoroughly grind down paint coats (not chalking, firmly adhering) and free them from dust.

#### Outdoor and indoor use:

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

## APPLICATION

Mix CM 25 with clean, clear water 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. 20 minutes. Use a notched spreader with a suitable notch depth so that the raised mortar is at least 65 %, depending on the format of the covering material used. Excess mortar, especially on indoor joint flanks, must be removed with a sponge while still fresh. Thanks to the fine mortar structure of CM 25, scraping of the joints is usually not necessary when laying glass mosaic and using a notched batten of 3 x 3 x 3 mm. In order to prevent the mortar ridges from showing through in the edge area, especially with glass tiles, we recommend using the buttering-floating method. Please make sure to also observe the tile manufacturers' laying instructions. Fully hardened material can only be removed mechanically. Natural stones should not be fixed using the spot application method. Grouting can be done after approx. 3 hours.

## PLEASE NOTE

CM 25 contains cement and produces an 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 immediately. For further information on the application of this product please refer in particular to DIN EN 12 004, DIN 18 332, DIN 18 157, DIN 18 515 and the information sheets issued by the Central Association of the German Building Trade. Please 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**

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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## TECHNICAL DATA

Base:	cement combination with synthetic resin additive (chromate-reduced) and selected sands, thin-bed mortar acc. to DIN EN 12004, C2 FT, colour white	
Bulk density:	approx. 1.26 kg/dm <sup>3</sup>	
Mixing ratio:	approx. 0.3 l/kg (non-slump consistency for walls) to approx. 0.32 l/kg (floor application of water), approx. 6.0 l (non-slump consistency for walls) to approx. 6.4 l (floor application of water) for 20 kg	
Maturing time:	5 minutes	
Working time:	approx. 45 minutes	
Application temperature:	+5 °C to +30 °C	
Open time:	approx. 20 minutes	
Correction time:	approx. 15 minutes, depending on substrate and covering material	
Creep:	< 0.1 mm	
Ready for grouting:	after approx. 3 hours	
Temperature resistance:	-30 °C to +70 °C	
Adhesive pull strength with all storage types:	≥ 1.0 N/mm <sup>2</sup>	
Consumption:	Notch depth acc. to DIN 18 157 in mm	Amount required in kg/m <sup>2</sup>
	3	1.1
	4	1.3
	6	2.0
	8	2.4
	10	3.0
Colour:	white	
Shelf life:	approx. 6 months if stored tightly closed in a cool and dry place. Use up opened sacks as soon as possible.	

	
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<b>EN 12004:2007 C2FT S1</b>	
<b>Fast setting, deformable cementitious adhesive with improved characteristics and slip resistance</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 10 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
Deformable adhesive: transverse deformation	≥ 2.5 mm