

## CM 9

### General purpose tile adhesion mortar

Tile adhesive for indoor areas



#### CHARACTERISTICS

- ▶ For ceramic tiles (glazed, terracotta), porcelain tiles, mosaic tiles
- ▶ For indoor areas
- ▶ For walls and floors
- ▶ Suitable for wet areas
- ▶ Easy workability



#### PRODUCT SCOPE

Polybit CM 9 is a tile adhesive low-emission LEED designed for fixing tiles on:

- cement and cement-lime plasters, cement screeds, cement ground coats, concrete substrates.
- primed light weight AAC blocks / concrete block
- wet areas (with periodic water penetration) e.g. bathrooms, kitchens, toilets
- utility rooms as cellars, storerooms, drying rooms, corridors, stairs, anterooms, living rooms

Polybit CM 9 should not be used

- on deformable substrates such as: primed plasterboards, wood chip-boards, heated floors, large tiles for walls, higher loads and Polybit flexible sealing materials like Polyflex & CL51

Alternatively under the above cases Polybit CM16 and CM117 should be used.

#### APPLICABLE STANDARDS

Tested according to EN 12004 and ANSI A118.1

#### SUBSTRATE PREPARATION

Polybit CM 9 can be applied on even, load-bearing and compact substrates, free of any substances that reduce adherence (grease, bitumen, dust):

- concrete (residual moisture  $\leq 2\%$ )
- cement screeds and plasters, cement and lime plasters (residual moisture  $\leq 1.5\%$ );
- aerated concrete (free from dust and primed with CT 17)

Substrates must not be wet. Any existing dirt, loose layers and paint coating with low strength shall be mechanically



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removed. Absorbent substrates shall be primed with CT 17 and left to dry for at least 2 hours. Surface unevenness of up to 5mm can be filled on the previous day using Polybit CM 9 mortar.

#### APPLICATION

Pour Polybit CM 9 into the precisely measured amount of clean water (see technical data) and stir with a drill and mixer until a homogenous mass without lumps is reached. Leave for 2 min. and then stir again. Apply the mortar with a suitable notched trowel. For indoor use, the mortar coverage (contact area) on the tile backside must be at least 65%. Place the tiles only during the open time of the adhesive. Do not lay tiles butt jointed! Fresh excess mortar can be removed with water; hardened material can only be removed mechanically. Grouting on the wall can be done after 8 hours and after 24 hours in floor using Polybit grouts. Walkability is reached after 24 hours. Expansion joints, joints at the corners of walls and floor and around sanitary equipment shall be filled with silicone sealant.

#### PLEASE NOTE

Work should be carried out in dry conditions at an air and surface temperature from 5°C to 40°C.

PRODUCT SAFETY: Contains cement. Strongly alkaline

reaction with moisture, so protect skin and eyes. After contact wash immediately with plenty of water. After eye contact also seek medical advice.

### OTHER INFORMATION

The manufacturer recommends using suitable products from the system solution range.

- For grouting, Polybit CE 33 aquastatic grout is recommended for general purpose and Polybit CE 47 is recommended for stain & chemical exposed area like kitchen, toilet etc.

Should you need support or advice, please consult our technical service.

### SUPPLY

CM9	25kg paper bag (Grey) 20kg paper bag (White)
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Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards. The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted 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 at laboratory conditions unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

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 wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.

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### TECHNICAL DATA

Colour	Grey/white
Base	mixture of cements with mineral fillers and modifiers
Bulk density	approx. 1.6 + 0.05g/cc
Mixing proportion	4.0 to 4.8L water per 20 kg bag 5.0 to 6.0L water per 25 kg bag
Initial maturing time	approx. 2min
Pot life	>1hr
Application thickness	3 to 10mm
Open time	Approx 10min
Slip resistant	Excellent
Walkability	after 24hrs @ 25°C
Temperature resistance	from -30°C to 70°C
Tensile adhesion strength [ANSI A118.1]	
Sec 5.3	>80Psi [28days @ 20minutes]
Sec 5.3	> 80Psi [28days @30minutes]
Sag on vertical surface [ANSI 118.1]	
Sec 6.0	>0.5mm
Shear adhesion strength glazed wall tile [ANSI 118.1]	
Sec 7.1.2	>200 Psi [7days]
Sec 7.1.3	>150 Psi [7days water immersion]
Shear adhesion strength Porcelain Tile [ANSI 118.1]	
Sec 7.2.2	>60 Psi [1day]
Sec 7.2.3	>160 Psi [7days]
Sec 7.2.4	>100 Psi [7days water immersion]
Sec 7.2.5	>150 [28days]
Coverage	2.5kg - 8kg for even substrates (consumption can vary depending on the evenness on the substrate, trowel notch depth and the type of tiles)
Shelf life/Storage	Approx. 12 months from production date, if stored on pallets in dry conditions and original undamaged packaging.

All values given are subject to 5-10% tolerance



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