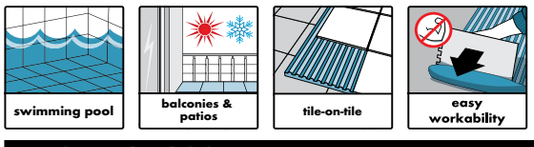
CM 16 - FLEXIBLE

FLEXIBLE POLYMER MODIFIED CEMENTITIOUS TILE ADHESIVE

Extended open time and high vertical slip resistance

CHARACTERISTICS

- Suitable for ceramic, vitrified, porcelain, mosaic, granite, sand stone and marble tiles
- Flexible - polymer modified
- For indoor and outdoor areas
- For walls and floors
- Non-slip, perfect for walls
- Recommended for swimming pools and wet areas
- Easy application
- Does not contain asbestos, chromated copper arsenate & lead



PRODUCT SCOPE

– Ceresit CM 16 is a polymer modified cementitious tile adhesive for indoor and outdoor areas to permanently install tiles on:
– Light weight AAC blocks, concrete blocks, wood and cement boards, and soundproofing panels*
– Gypsum and anhydrite substrates (inside)*
– Swimming pools and wet areas with extended water penetration such as bathrooms, kitchens, and toilets
– Utility rooms (e.g. cellars, storerooms, drying rooms, corridors, stairs, anterooms and living rooms)
– Balconies and terraces
– On substrates subjected to slight deformation such as plasterboards*, wood chip-boards, and heated floors

* Primed with a suitable primer from Henkel

Kindly contact your local Henkel technical advisor for further assistance.

APPLICABLE STANDARDS

Tested according to EN 12004, ANSI A118.1 & ANSI A118.4

SUBSTRATE PREPARATION

Ceresit CM 16 can be applied on even, load-bearing and compact substrates, free of any substances that reduce adherence (grease, dirt and dust).

Indoors and outdoors:

– Concrete (having residual moisture ≤2%)
– Cement screeds (without floor heating), plasters, cement and lime plasters (having residual moisture ≤1.5 %)

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Indoors:

– Anhydrite substrates (without floor heating and having residual moisture <0.5%) and gypsum substrates (having residual moisture <1%) that are mechanically roughened, dust-free and primed*
– Aerated concrete (that is dust-free and primed*)

Substrates must not be wet. Cement and concrete screeds must be fully cured prior to application. Any existing dirt, loose debris and coatings should be removed mechanically. Absorbent substrates should be primed* and left to dry for at least 2 hours. Surface unevenness of up to 5mm can be filled on the previous day using Ceresit CM 16 tile adhesive.

* Primed using a suitable primer from Henkel.

APPLICATION

Pour Ceresit CM 16 into the precisely measured amount of clean cold water (as instructed in the technical data sheet) and mix using a slow speed drill until a homogenous mass without lumps is achieved. Leave for 2 minutes and then mix again. Apply the tile adhesive with a suitable notched trowel on the substrate. The size of the trowel's teeth depends on the size of the tile. For indoor use, the tile adhesive should cover at least 65% of the tile's backside. For outdoor uses, the back-buttering method should be followed to cover at least 90% of the tile's backside. Place the tiles only during the open time of the adhesive. The width of the grouts should be the same and should depend on

the size of the tile and exposure conditions. Excess tile adhesive can be removed with water, while hardened material can only be mechanically removed. Grouting on walls and floors can be done approximately after 8 hours and 24 hours respectively. Walkability is achieved after 24 hours. Expansion joints, corner joints and sanitary equipment surroundings shall be filled with a suitable 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

In the case of laying stone tiles that are prone to color changes, sample tests should be conducted to check that the tile adhesive does not cause fading of the tiles.
Kindly contact your local Henkel technical advisor for further assistance.

SUPPLY

Ceresit CM 16	25kg paper bag

TECHNICAL DATA

Base	mixture of cements with mineral fillers and modifier
Colour:	Grey & White
Mix density [g/cc]	1.7±0.05
Mixing proportion	5.25 to 5.75L water per 25kg bag
Pot life @ 25°C, [hrs]	>2
Open time, [min]	approx. 30
Application temperature, [°C]	5 to 40
Service temperature, [°C]	0 to 70
Walkability	after 24hrs @ 25°C
Initial tensile adhesion strength, [N/mm²]	≥1 [EN 12004]
Tensile adhesion strength after water immersion, [N/mm²]	≥1 [EN 12004]
Tensile adhesion strength after heat ageing, [N/mm²]	≥1 [EN 12004]
Extended open time tensile adhesion strength @ 30 minutes, [N/mm²]	≥0.5 [EN 12004]
Slip, [mm]	≤0.5 [EN 12004]
Extended open time tensile adhesion strength @ 30 minutes, [N/mm²]	≥0.5 [ANSI 118.4]
Glazed wall tile shear strength @ 7 days, [N/mm²]	>2.07 [ANSI A 118.4]
Glazed wall tile shear strength @7 days water immersion, [N/mm²]	>1.38 [ANSI A 118.4]
Porcelain mosaic tile shear strength @ 7 days, [N/mm²]	>1.38 [ANSI A 118.4]
Porcelain mosaic tile shear strength @ 7 days water immersion	>1.03 [ANSI A 118.4]
Quarry tile shear strength @ 28 days, [N/mm²]	>1.03 [ANSI A 118.4]
Quarry tile shear strength after freeze-thaw-cycle [N/mm²]	>0.69 [ANSI A 118.4]
VOC content, [g/L]	<0.10 [ASTM D 3960]
Coverage	2-7kg/m² (consumption can vary depending on the evenness of the substrates, notch trowel sizes and type of tiles)
Shelf life	Approx. 12 months if stored in a tightly sealed container, in cool and dry conditions.

All values given are subject to 5-10% tolerance

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