

# CM 16 EXPRESS



## Flexible fast-setting grout & adhesive

### CHARACTERISTICS

- ▶ foot traffic and grouting possible after only 3 hours
- ▶ a thick-layer product – up to 20 mm
- ▶ for balconies, terraces, underfloor heating systems
- ▶ for challenging substrates: OSB, tile-on-tile
- ▶ shrinkage-free drying and setting
- ▶ facilitates fast tile installation
- ▶ recommended for large and small tiles
- ▶ full load allowed after 24 hours

### APPLICATION

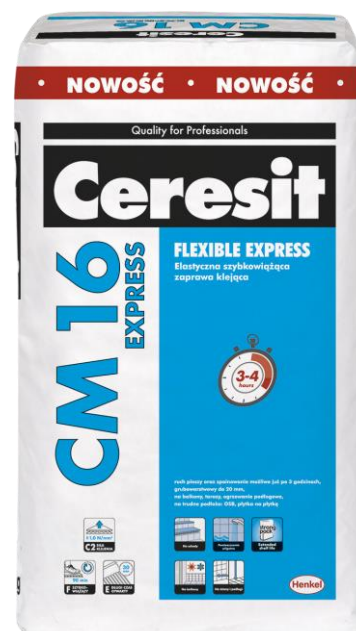
Thanks to the rapid increase in strength, CM 16 Express grout & adhesive is particularly suitable for renovation work or when you want to put the premises into operation quickly. When using this grout & adhesive you can walk on the tiles and grout them after just 3 hours from fixing them to the substrate.

CM 16 Express is used for fixing ceramic tiles (glazed tiles, terracotta, porcelain stoneware), cement and natural stone tiles (stain resistant) on substrates such as concrete, cement screed, cement and cement-lime plaster or heated floors. It works well in the places exposed to intensive traffic and service loads such as traffic routes, corridors, schools, markets, stores, restaurants, etc.

It can be used indoors and outdoors, in housing and general construction. It can also be used (only indoors) on gypsum, anhydrite, aerated concrete substrates, on solid paint coatings, existing tiles and cellular concrete. When fixing stone tiles that are susceptible to staining, it is imperative that you perform your own application tests to make sure that the adhesive does not stain the tiles.

In the case of other types of tiles, substrates or higher loads – use appropriate Ceresit grouts and adhesives.

CM 16 Express can be used in ecological and energy efficient buildings as well as in passive buildings.



### SURFACE PREPARATION

The CM 16 Express grout & adhesive can be used on load-bearing and dry substrates which are free from any adhesion-reducing substances (such as grease, bitumen, dust):

- concrete (not earlier than 3 months after casting, moisture content below 4%),
- cement screeds and plasters, cement-lime plasters (not earlier than 28 days after casting, moisture content below 4%);
- gypsum plasterboards – primed with Ceresit CT 17,
- solid and well adherent coatings, sanded with sandpaper, dusted and primed with Ceresit CT 17,
- anhydrite (moisture content below 0.5%) and gypsum substrates (moisture content below 1%) – dusted and primed with Ceresit CN 94 or CT 17,
- cellular concrete, dusted, primed with CT 17,
- oriented strand boards and wood particle boards > 22 mm thick) – mechanically sanded and primed with Ceresit CN 94 or CT 19,
- existing ceramic and stone tiles – cleaned, degreased and primed with Ceresit CN 94 or CT 19.

Any existing dirt, old layers and paint coatings of low durability must be removed mechanically. Absorbent substrates should be primed with Ceresit CT 17 and allowed to dry for at least 2 hours. Any unevenness of the surface up to 20 mm can bevelled one day earlier with the CM 16 Express grout & adhesive. In the case of larger bumps or defects, use Ceresit CN products on the floors or the Ceresit CT 29 filler on the walls.

## PERFORMANCE

Pour the contents of CM 16 Express package into a measured amount of clean, cool water and mix with a drill mixer until a homogeneous, lump-free mixture is obtained. Leave for 5 minutes then mix again. If necessary, add a small amount of water and mix again.

Spread the grout & adhesive over the substrate using a notched trowel with notches of appropriate size or, if the adhesive bed needs to be thicker, using a masonry trowel. When the tiles are exposed to moisture and frost and when the thickness of the mortar under the tile exceeds 5 mm, an additional thin layer of mortar should be applied to the mounting surfaces of the tiles.

In the case of horizontal surfaces make sure that each tile has been pressed with appropriate pressure against the substrate. The grout & adhesive should spread to cover at least 80% of the underside of the tile. In the case of vertical surfaces, start laying the tiles from the bottom edge of the wall or use a prop. It is also recommended to use tile spacers.

Do not soak tiles in water! Lay them on the grout & adhesive and press while the adhesive is still sticky to your hands. Always leave gaps between tiles! You can remove fresh grout & adhesive from tiles with water, whilst dried product must be removed mechanically.

The joints between tiles, joints in wall corners, wall-floor joints as well as the spaces where the tiles reach bathroom fittings should be filled with the Ceresit CS 25 MicroProtect silicone.

## CAUTION

Perform the work in dry conditions, with air and surface temperature between +5°C and +25°C.

CM 16 Express contains cement and its contact with water causes an alkaline reaction. Protect your skin and eyes. In case of contact with eyes, rinse thoroughly with plenty of water and seek medical advice.

## RECOMMENDATIONS

When fixing stone tiles that are susceptible to staining, it is imperative that you perform your own application tests to make sure that the adhesive does not stain the tiles. In addition, when bonding marble tiles and light translucent stone tiles - always apply a thin layer of mortar to the mounting surfaces of the tiles.

- The manufacturer recommends the use of appropriate products included in the solution system.
- For grouting inside and outside buildings, including terraces and balconies, use the Ceresit CE 40 Aquastatic or Ceresit CE 43 Grand'Elit grout. For substrates exposed to aggressive chemical or mechanical factors, use the Ceresit CE 43 Grand'Elit grout.
- For interior damp proofing, use the Ceresit CL 51 damp proofing coat and the Ceresit CL 152 or CL 62 sealing tape. For outdoor applications use the Ceresit CL 50 or Ceresit CR 166 sealant and the Ceresit CL 152 tape.
- For additional protection of joints and ceramic cladding against stains and dirt, use the Ceresit CT 10 silicone sealant which renders the surface hydrophobic.

## STORAGE

CM 16 Express can be stored for up to 12 months in the original sealed packaging, in a dry place. Protect the product from getting damp during transport and storage.

## PACK SIZE

25 kg bag

## TECHNICAL DATA

Base:	blend of cements with mineral fillers and polymer modifiers
Bulk density:	approx. 1.3 kg/dm <sup>3</sup>
Mixing proportions:	approx. 6.5- 7.0 l of water per 25 kg
Application temperature:	between +5-C and +25-C
Working time:	up to 60 min
Extended open time (according to EN 12004: 2007 + A1:2012):	tensile adhesion strength $\geq 0.5$ N/mm <sup>2</sup> , after not less than 30 min
Grout:	after 3 h
Joint strength expressed as:	early adhesion strength $\geq 0.5$ N/mm <sup>2</sup> after not more than 6 h initial adhesion strength $\geq 1.0$ N/mm <sup>2</sup>
Durability in conditioning/thermal ageing conditions defined as:	adhesion strength after heat ageing $\geq 1.0$ N/mm <sup>2</sup>
Durability under the impact of water/moisture defined as:	Adhesion strength after water immersion $\geq 1.0$ N/mm <sup>2</sup>
Durability under the impact of freeze/thaw cycles defined as:	Tensile adhesion strength after freeze/thaw cycles $\geq 1.0$ N/mm <sup>2</sup>
Reaction to fire:	Class A1; A1f
Content of dangerous substances:	meets the requirements: see the Product Data Sheet
Temperature resistance:	between -30-C and +70-C

Approximate yield:	refers to an even substrate; the coverage may vary depending on the evenness of the substrate and the type of tiles		
	Tile length up to (cm)	Trowel notch size (mm)	Coverage (kg/m <sup>2</sup> )
	10	4	1.7
	15	6	2.3
	25	8	2.9
	30	10	3.5
	> 30	12	4.1

- Product compliant with the PN-EN 12004:2008 standard.

Any technical advice can be obtained from the telephone numbers:

+48 800 120 241  
+48 41 3710124.

In addition to the information provided in this data sheet, the rules of the trade, guidelines of institutes and associations, relevant national and European standards, approval documents, health and safety regulations, etc. must be observed. The properties and technical characteristics listed above are based on practical experience and tests. Any properties and applications of materials outside the scope of this data sheet require our written consent. All data refers to a substrate, ambient and material temperature of +23°C and a relative humidity of 50%, unless otherwise stated. Under other climatic conditions, the specified parameters may vary.

The information contained in this product data sheet, in particular recommendations concerning the method and conditions of application and the scope of application and use of our products, is based on our professional experience. This technical sheet defines the scope of application of the material and the recommended method of executing the work, but it cannot replace the professional preparation of the contractor. The manufacturer guarantees the quality of the product, but has no control over the conditions and method of its use. Since the conditions under which the products are used may change, it is recommended to perform your own tests in case of any doubts. We will not be liable for the above information or any verbal recommendation related thereto, except in cases of gross negligence or wilful misconduct. This product data sheet replaces all previous versions applicable to this product.



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