

# CM 16 WHITE



## White, flexible, fibre reinforced grout & adhesive

### CHARACTERISTICS

- ▶ white, fibre-reinforced grout & adhesive for natural stone and stone imitation tiles
- ▶ for marble, granite, travertine, reconstituted stone
- ▶ for glass and ceramic mosaic tiles
- ▶ for deformable substrates: underfloor heating, terraces, balconies and damp insulation
- ▶ stable on vertical surfaces
- ▶ grouting after 24 hours
- ▶ for underfloor heating

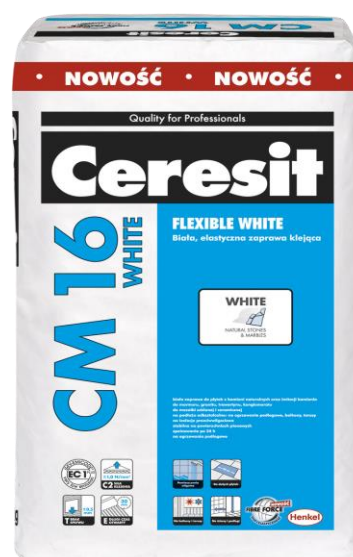
### APPLICATION

The Ceresit CM 16 WHITE grout & adhesive is used for installation of marble, granite, sandstone, travertine tiles and tiles made of reconstituted stone, light limestone and other coarse-grained stain-resistant rocks. It is also suitable for bonding ceramic, glazed ceramic, stoneware and terracotta tiles and all types of mosaic tiles, e.g. glass or ceramic mosaic tiles. Each time before fixing the tiles it is recommended to make your own application test to check whether the grout & adhesive may stain the tiles.

Thanks to the addition of fibres the grout & adhesive have excellent performance and technical parameters. The product exhibits high adhesive strength and flexibility which is of great importance when used on balconies or terraces or on top of underfloor heating.

Due to its properties the product can be used for laying tiles on gypsum fibreboards and gypsum plasterboards on such substrates as: anhydrite screeds, gypsum and aerated concrete substrates and sealing coatings. It can be used on terraces, balconies, stairs, heated floors, façades as well as on oriented strand boards and the already existing ceramic cladding (only indoors). It also works well in the places exposed to intensive traffic and service loads such as traffic routes, corridors, schools, markets, stores, restaurants, etc.

CM 16 WHITE is highly adhesive, spreads well and easily under tiles thus providing a flexible bonding between the tiles and deformable substrate that is capable of transferring shearing stress. Thanks to the shrinkage-free drying and setting,



glued tiles are stable both in the first setting phase and after complete drying.

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

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

### SURFACE PREPARATION

The substrate must be load-bearing, dry, free from any substances that reduce adhesion, such as grease, bitumen, dust. Any existing dirt, old layers and paint coatings of low durability must be removed mechanically. Absorbent substrates, gypsum plasterboards, cellular concrete should be primed with Ceresit CT 17 and allowed to dry for at least 2 hours. Anhydrite and gypsum substrates and solid paint coatings should be sanded, dusted and primed with CN 94 or CT 17. Wood particle boards and oriented strand boards should be sanded and primed with CN 94. Existing tiles should be cleaned, degreased and primed with CT 19 or CN 94. Moisture content of concrete, screeds or cement plaster must not exceed 4%, of anhydrite substrates – 0.5% , and gypsum substrates – 1%. Any unevenness of the surface of up to 5 mm can be levelled one day earlier with the CM 16 WHITE grout & adhesive. In the case of larger

bumps, use Ceresit CN on the floors or Ceresit CT 29 on the walls.

## PERFORMANCE

Pour the contents of the 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. Use a notched trowel to spread the grout & adhesive over the surface. The size of the trowel notches depends on the size of the tiles. The correct size and spacing of the trowel notches prevent a typical ceramic tile, pressed onto the adhesive, from sliding down the vertical plane and allow the grout & adhesive to coat at least 65% of the underside surface of the tile. If you are gluing tiles outside or if you are gluing tiles made of natural stone, use a combined method, i.e. apply an additional, thin layer of the product onto the underside of a tile. 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! The right spacing between tiles depends on the size of tiles and the conditions in which they will be utilised. You can remove fresh grout & adhesive from tiles with water, whilst dried product must be removed mechanically. Fill joints not earlier than after 24 hours, using the Ceresit grouts from the CE group. 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 WHITE 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.

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.

Detailed information on the product can be found in the product technical data sheet. Aside from these recommendations, always follow the rules of good working or available standards. In case of any doubts contact the technical department or perform your own application tests.

## RECOMMENDATIONS

- When fixing thin natural stone tiles, on the surface of tiles a temporary discolouration can be observed resulting e.g. from high absorbency of the material. The stains will disappear when the adhesive is totally dry, approximately 7 days from application.
- When fixing 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.

## STORAGE

CM 16 WHITE 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

22.5kg bags.

## TECHNICAL DATA

Base:	blend of cements with mineral fillers and polymer modifiers
Bulk density:	approx. 135 kg/dm <sup>3</sup>
Mixing proportions:	approx. 7.0-7.4 l of water per 22.5 kg
Application temperature:	between +5°C and +25°C
Initial setting time:	approx. 5 min.
Working time:	up to 2 hours
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
Slip (according to EN 12004: 2007 + A1:2012):	$\leq 0.5$ mm <sub>2</sub>
Grout:	after 24h
Maximum size of glued tiles:	60x60cm
Foot traffic can be allowed:	after 24 h
Full load allowed:	after 3 days
Joint strength expressed as:	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 (in accordance with EN 12004: 2007 + A1:2012):	Class A1;A1 <sub>f</sub>
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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