CM 11 PLUS

»COMFORT GRES«
Adhesive mortar for gres tiles

CHARACTERISTICS
- for gres and ceramic tiles
- for indoor use (also wet areas), outdoor use in domestic areas
- for use on waterproofed surfaces
- easy mixing and spreading
- water- and frost-resistant

SCOPE OF USE
Ceresit CM 11 PLUS adhesive mortar is designed for laying gres and other ceramic, cement and natural stone tiles (colour-fast), indoors and outdoors. It can be used for fixing tiles on cement or cement and lime plasters, cement screeds, concrete and inside buildings on primed substrates made of: gypsum, anhydrite, sealing materials CL 51 (laying tiles 2 days after their application) and CR 65 (tiles can be laid after a min. of 2 days after their application). Thanks to a special combination of fillers, the new mortar CM 11 PLUS is much easier to apply, therefore making the progress of works much faster. Using the CM 11 PLUS adhesive is recommended for gres tiles of up to 40 x 40 cm approximately. On deformable substrates such as: primed plasterboards, wood chip-boards, heated floors and Ceresit flexible sealing materials CL 50, CR 166, Ceresit CM 12 mortar shall be used, or the CC 83 elastic emulsion shall be added to the CM 11 PLUS mortar. For higher loads and deformable substrates like terraces and balconies - CM 16 or CM 17 are recommended. For laying natural stone tiles that are not colour-fast, Ceresit CM 15 Marble&Mosaic mortar shall be used.

SUBSTRATE PREPARATION
Ceresit CM 11 PLUS adhesive mortar can be applied on even, load-bearing and compact substrates, free of any substances that reduce adherence (such as: grease, bitumens, dust):
- concrete (at least 3 months old, residual moisture \( \leq 4\%\)),
- cement screeds and plasters, cement and lime plasters (at least 28 days old, residual moisture \( \leq 4\%\))
- aerated concrete — freed 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 removed. Absorbent substrates shall be primed with Ceresit CT 17 and left to dry for at least 2 hours. Surface unevenness of up to 5 mm can be filled on the previous day with the same CM 11 PLUS mortar. In the case of bigger unevenness and dents - Ceresit products from the CN group shall be used on floors and Ceresit CT 29 filler on walls.

APPLICATION
Pour the content of the package to a precisely measured amount of clean, water and stir with a drill with a mixer until it forms a homogeneous mass, free of lumps. Leave for 2 min. and then stir the mixture again. If necessary - add a small amount of water and stir once more. Spread the mortar onto the substrate with a notched trowel with suitable tooling. When tiles are exposed to moisture and freezing, an additional thin layer of the mortar shall be applied on the installation side of the tiles. The area covered with adhesive on the bottom side of gres tiles shall be minimum 70% (the combined method is
For grouting, Ceresit CE 40 aquastatic grout is recommended. The manufacturer recommends using suitable products from the system solution range. Therefore protect eyes and skin. In the case of eye contact, rinse eyes thoroughly with water and consult a doctor.

**PLEASE NOTE**

Works should be carried out in dry conditions, with the air and ground temperature from +5 °C to +25 °C. CM 11 PLUS contains cement and after mixing with water produces an alkaline solution. Therefore protect eyes and skin. In the case of eye contact, rinse eyes thoroughly with water and consult a doctor.

**OTHER INFORMATION**

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

- For grouting, Ceresit CE 40 aquastatic grout is recommended. On substrates exposed to chemical aggression or mechanical impact (terraces, balconies, traffic areas) Ceresit CE 43 Grand’Elit grout shall be used.
- For waterproofing in indoor applications a sealing film Ceresit CL 51 and sealing tape Ceresit CL 62 are recommended.
- Dirt- and water-repellent silicone impregnation agent Ceresit CL 51 and sealing tape Ceresit CL 62 are recommended.

In the case of laying tiles made of stone that is prone to colour influence, we strongly recommend that in each case dirt stains from the mortar can be rinsed with water, hardened stains must be removed mechanically. Grouting can be done not earlier than after 24 hours using Ceresit materials from the CE group. Expansion joints between tiles, joints at corners, in places where floor meets walls and around sanitary equipment shall be filled with Ceresit CS 25 MicroProtect silicone.

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 of the German Standards Institute (DIN). 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 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.

<table>
<thead>
<tr>
<th>TECHNICAL DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base: a mixture of cements with mineral fillers and modifiers</td>
</tr>
<tr>
<td>Bulk weight: approx. 1.45 kg/dm³</td>
</tr>
<tr>
<td>Mixing ratio: 25</td>
</tr>
<tr>
<td>Application temperature: from +5 °C to +25 °C</td>
</tr>
<tr>
<td>Initial maturing time: approx. 5 min.</td>
</tr>
<tr>
<td>Pot life: up to 2 hours (90 min)*</td>
</tr>
<tr>
<td>Open time (according to the PN-EN 12004 standard): adherence ≥ 0.5 MPa</td>
</tr>
<tr>
<td>Creep (according to the PN-EN 12004 standard): ≤ 0.5 mm</td>
</tr>
<tr>
<td>Grouting: after 24 hours</td>
</tr>
<tr>
<td>Adhesive tension strength (according to the PN-EN 12004 standard): - initial: ≥ 0.5 MPa, - after soaking in water: ≥ 0.5 MPa, - after thermal maturing: ≥ 0.5 MPa, - after freezing and defrosting cycles: ≥ 0.5 MPa</td>
</tr>
<tr>
<td>Temperature resistance: from -30 °C to +70 °C</td>
</tr>
<tr>
<td>Reaction to fire: A1/A1</td>
</tr>
<tr>
<td>Approximate consumption (for even substrates; consumption can vary depending on the evenness on the substrate and the type of tiles): up to 10 cm 4 mm 2.0 0.16 up to 15 cm 6 mm 2.7 0.22 up to 25 cm 8 mm 3.4 0.27 up to 30 cm 10 mm 4.2 0.38 above 30 cm 12 mm 4.8 0.43</td>
</tr>
<tr>
<td>Shelf life/ Storage: Up to 12 months from the production date, if stored on pallets, in dry conditions, in original and undamaged packages</td>
</tr>
</tbody>
</table>

The product is compliant with the PN-EN 12004:2008 standard.

**HENKEL POLSKA SP. Z O.O.**
ul. Domaniewska 41
02-672 Warszawa

**EN 12004:2007 + A1:2012**
Normal setting cementitious adhesive with reduced slip
EN 12004: 2007 + A1: 2012 C1 T
Slip: ≤ 0.5 mm

Henkel AG & Co. KGaA Bautechnik Deutschland
Henkelstraße 67 · 40191 Düsseldorf
Phone: +49 211/797-0 · Fax: +49 211/798-1204
Internet: www.ceresit-bautechnik.de
E-mail: ceresit.bautechnik@henkel.com

Quality for Professionals

[Henkel Logo]