

NANOCOLOR

High-performance flexible cement-based grouting compound (CG2, EN 13888) for 2 - 15 mm of joint width

CG2



- ▶ Permanent in-depth water-repellent action
- ▶ High wear resistance
- ▶ Good placeability, fast washing of the covering surface
- ▶ Integrated mould protection
- ▶ Smooth joint surface with very low water absorption
- ▶ Joints between 2 and 15 mm without formation of cracks
- ▶ Resistance to freeze/thaw cycles
- ▶ UV colour resistance
- ▶ Compensated shrinkage

PRODUCT DESCRIPTION	<p>Powder mixture of cement, polymer powder, quartz sand of selected grain sizes, fillers, oxide pigments and special additives.</p> <p>NANOCOLOR is available in 22 colours: N05 - silver grey, N07 - light grey, N10 - grey, N15 - medium grey, N20 - dark grey, N30 - anthracite grey, N40 - light brown, N50 - brown, N60 - white, N70 - manhattan, N75 - vanilla, N80 - beige, N85 - almond, N90 - sahara, N100 - terracotta, N105 - yellow, N110 - pink, N115 - ice blue, N120 - light blue, N130 - blue, N135 - green, N140 - light green.</p> <p>The use of special nanotechnology-produced hydrophobic additives gives the blend highly water-repellent properties and resistance to even prolonged periods of abrasion.</p>
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FIELD OF USE For grouting, indoors and outdoors, of wall and floor coverings made of ceramics, gres porcelain, glass and marble mosaic tiles, clinker tiles, natural and artificial stone, fireclay tiles. In bathrooms, wet rooms, screeds with continuous heating, balconies, terraces with drainage.

In harsh conditions, such as grouting facades, swimming pools and permanently wet areas exposed to increased load, the use of additive KEMALASTIC is recommended.

Joint width 2-15 mm.

PRODUCT PROPERTIES	<ul style="list-style-type: none"> • Permanent in-depth water-repellent action • High wear resistance • Good placeability, fast washing of the covering surface • Integrated mould protection • Smooth joint surface with very low water absorption • Joints between 2 and 15 mm without formation of cracks • Resistance to freeze/thaw cycles • UV colour resistance • Compensated shrinkage
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PRODUCT DATA

BASIC INFORMATION

Appearance Fine powder in 22 different colours

Packing 2,2 kg in bucket (promotional packaging) / 352 kg (160 X 2,2 kg) on pallet
5,5 kg in plastic bag (promotional packaging) / 27,5 (5 X 5,5 kg) in cardboard box / 825 kg (30 X 27,5 kg) on pallet
5x5 kg in cardboard box / 750 kg (30 x 25 kg) on pallet

Storage and expiration date Minimum 36 months from date of production if stored properly in undamaged original sealed packaging in dry and cool conditions. Date of production is printed on packaging. For promotional packaging (2,2 and 5,5 kg) expiration date is printed on packaging

TECHNICAL DATA

Abrasion resistance 976 mm³ EN 12808-2

Flexural strength after dry storage 3,71 MPa EN 12808-3

Flexural strength after freezing/thawing cycles 3,6 MPa EN 12808-3

Compressive strength after dry storage 15,98 MPa EN 12808-3

Compressive strength after freezing/thawing cycles 37,0 MPa EN 12808-3

Shrinkage 0,81 mm/m EN 12808-4

Water absorption after 30 minutes 1,58 g EN 12808-5

Water absorption after 240 minutes 3,77 g EN 12808-5

INSTRUCTIONS FOR USE

CONSUMPTION approx. 0,2 - 0,5 kg/m² of tiles

BASE PREPARATION Grouting can be started when adhesive for setting tiles is complete hardened. Consider times in technical data sheets of adhesives. Adhesive between tiles is removed to at least 2/3 of depth, when still in fresh condition. If grouting is done in grouts from which old grouting compound has been previously removed or by grouting very water-absorbent tiles, grouts have to be moistened before grouting.

MIX RATIO Approx.: 7,5 l of water per 25 kg of grouting compound / approx.: 1,65 l of water per 5,5 kg of grouting compound / approx.: 0,66 l of water per 2,2 kg of grouting compound



MIX TIME The content of the packaging is poured into the prescribed quantity of clean water and is mixed with electric mixer until you get a homogenous thick mass of uniform colour and without clods. Water must not be added to grouting compound which is in the binding phase in order to increase its flexibility.

Grouting compound contains additives for water repellence which do not influence on water absorption of powdery mixture and thus enable mixing without raising of dust.

MIX TOOL Grouting compound NANOCOLOR is mixed in a clean container with electrical mixer.

INSTALLATION Grouting compound is rubbed into grouts with diagonal pulls by rubber trowel so that grouts are completely filled. Excessive mass is removed and smoothen grouts with wet sponge. Wait for grouting compound in grouts to start binding. Immediately after the binding process starts, when film on tiles uniformly changes its colour – in normal conditions (+23°C and relative air humidity of 50%) this takes cca. 15 minutes, tiles are washed with as little wet sponge as possible. After the drying of grouting compound, tiles are polished with a dry cloth.

Always adjust the grouting procedure to type of tiles.

TOOL Grouting compound NANOCOLOR is rubbed in grouts with a rubber trowel or polisher.

For washed grouting compound from surface of tiles we use wet sponge.

CLEANING OF TOOL Tool is cleaned in wet condition immediately after the use. Dried material on tools can only be removed mechanically.

USAGE TIME approx. 30 minutes

COAGULATION Start of final treatment of grouts fug (washing) after cca. 15 minutes

Grouting of wall surfaces:

- normal adhesives after a minimum of 8 hours
- quick-setting adhesives after a minimum of 2 hours
- lime-cement mortar after a minimum of 2 to 3 days

Grouting of floor surfaces:

- normal adhesives after a minimum of 24 hours
- quick-setting adhesives after a minimum of 4 hours
- lime-cement mortar after a minimum of 7 days

Ready for foot traffic after minimum 24 hours

Full load after min. 7 days

LIMITATIONS

BASE TEMPERATURE +5°C min./ +25°C max.

AIR TEMPERATURE +5°C min./ +25°C max.

MATERIAL TEMPERATURE +5°C min./ +25°C max.

- WARNINGS**
- Times specified in the technical sheet were measured at the temperature of 23°C and relative air humidity of 50%. Higher temperatures reduce, while lower temperatures prolong those times.
 - Due to numerous negative effects during preparation, installation and coagulation of grouting compound, differences in colour shade between the original sample and installed grouting compound can occur.
 - Slight differences in colour shade are also possible among different series.
 - To ensure uniform colour shade of grouts on the complete grouting surface, it is necessary to use grouting compound with the same production date. For the same reason it is recommended that one completed surface is grouted with the same mixture.
 - Cleaning procedure for highly-absorptive coarse tiles is previously checked on a testing tile.
 - Installation on frozen surface, in direct sunlight, strong wind or drought is not allowed.
 - Protect fresh install compound from frozen, rain and other water conditions. Do not use product if temperature of substrate, air, mixture) is below +5°C.
 - If the colour shade of hardened joint grout is paramount important, is a necessary preliminary test on a small imperceptible area in the conditions of installation.
 - Due to technical reasons, the colour printing on the label is not completely identical to colour of hardened joint grout.

Recommendation: Remains of unhardened/unset material had to be removed in accordance with the legislation.

Data source: All technical data in this technical sheet was obtained by laboratory research. Actual data may differ due to different working conditions.

Local restrictions: Due to specific local regulations the installed product can differ from country to country. For exact instructions for use a country specific technical sheet should be obtained.

PROOFS

NORMS/STANDARDS Grouting compound is tested in accordance with EN 13888 standard

SAFETY DATA

Irritating. Contains cement. Irritating to eyes, skin and respiratory tract. In case of eye contact wash thoroughly with water at once and consult a doctor. In case of skin contact flood with a lot of water. Keep away from the reach of children. More data on storage, handling and use of mixture can be found in the safety sheet which contains safety, toxicological and ecological data. Warnings on the original packaging should also be considered.

LEGAL BASE

Information and recommendations related to use of KEMA products are presented in good faith and believed to be correct. The later is based on our knowledge and experience with the products. Information is supplied upon the condition that products are stored and used according to the recommendations and the persons receiving the same will make their own determination as to its suitability for their purposes prior to use. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to Information or the product to which information refers. In no event will KEMA be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information or the product to which Information refers. Nothing contained herein is to be construed as a recommendation to the use any product, process, equipment or formulation in conflict with any patent, and KEMA makes no representation or warranty, expressed or implied that the use thereof will not infringe any patent. All orders fall under current sales and supply conditions. The user should always check the latest technical sheet available upon demand.