

PRODUCT DATA SHEET

Casco® Design Premium

PREMIUM QUALITY UNIVERSAL TILE GROUT



DESCRIPTION

Cement based fast setting, dust reduced universal grouting mortar. Intended for grouting joints between large format, fully vitrified tiles, glass ceramics, absorbing ceramic tiles, for polished and impervious natural stones (incl. discoloration sensitive stones). Suitable for wet rooms, on heated floor, for indoor & outdoor use, for wall and floor application.

USES

Casco® Design Premium is intended for applications on wall & floor, for indoor & outdoor, wet areas, on facades, in balconies & terrace, in normal loaded commercial areas. It is suitable for grouting of:

joint width from 1 to 10 mm between

- stoneware tiles
- fully vitrified tiles, including large formatted tiles
- glass mosaic
- cast stone tiles
- natural stone tiles, sensitive to discoloration
- artificial stone tiles
- Jurassic lime stone & crystalline marble tiles
- Magmatic stone tiles

joint width from 1 to 5 mm between

- earthenware tiles
- absorbing ceramic tiles
- highly absorbing natural stone tiles

CHARACTERISTICS / ADVANTAGES

- Rapid hardening
- Fast drying
- High color homogeneity
- Dust reduced
- Water resistant
- Frost resistant
- Water and dirt repellent
- Fine grained
- Creamy and compact mortar structure
- High abrasion resistance
- Hardening without cracks

SUSTAINABILITY

- EC1 Plus: very low emission
- M1 emission classification

APPROVALS / CERTIFICATES

- CG2WA according to EN13888

PRODUCT INFORMATION

Composition	Cement based
Packaging	5 kg polyethylene-aluminum bag (4 pieces per box) 2 kg polyethylene-aluminum bag (5 pieces per box)
Appearance / Colour	Available in 8 colors: grey 19, light grey 13, dark grey 28, graphite 34, platinum grey 25, manhattan 16, white 10, havana 58
Shelf life	18 months
Storage conditions	In cool, dry conditions (in closed packaging)
Density	Powder density: approx. 1.13-1.21 g/cm ³ , depending on color Mortar density: approx. 1.87 g/cm ³
Maximum grain size	0.25 mm

TECHNICAL INFORMATION

Joint width	1-10 mm between fully vitrified, low absorbing ceramic and stone tiles 1-5 mm between absorbing ceramic or highly absorbing natural stone tiles
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APPLICATION INFORMATION

Mixing ratio	5.0 kg CASCO DESIGN PREMIUM + approx. 1.4-1.45 l water 2.0 kg CASCO DESIGN PREMIUM + approx. 0.55 l water
Consumption	Consumption of powder: ▪ 0,3-3,0 kg/m ² , depending on tile size, joint width and depth
Ambient air temperature	not below +5°C
Substrate temperature	not below +5°C
Pot Life	approx. 30 minutes at +20°C
Applied product ready for use	Ready for foot traffic: after approx. 6 hours Ready for full loading: after approx. 7 days

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Joints must be clean and free of separating substances. The joints between tiles must be free of adhesive minimum in the whole thickness of tile. Tiles are ready for grouting in 3-24 hours after gluing while laying tiles with a thin adhesive layer and depending on tile adhesive. In case of large formatted tiles, tile adhesive drying time depends on substrate absorbency and climate conditions. If necessary, there has to be used a fast setting tile adhesive Casco® Multifix Rapid. While grouting tiles, glued with a thick adhesive layer, adhesive mortar must be sufficiently hard and dry- grouting is possible at the earliest after 7 days. Observe country-specific guidelines and recommendations of the construction board producer.

MIXING

Stir Casco® Design Premium into cold, clean water to get homogeneous mortar (spiral mixer with 600 rpm recommended).

APPLICATION

The grout mortar to be deeply inserted into the joint by using a rubber grouting trowel and then a sponge board for smoothing and cleaning. Start smoothing and cleaning with a small amount of water, preventing wash out of joints once the mortar starts to set (fingertip test). Use a sponge board for shaping the outlines and removing grout residues from tile surface. Washing and smoothing could be done, depending on the absorbency of the covering, approx. between 5 and 45 minutes after grout is inserted into the joint. If grouting mortar residues are stronger bonded and hardened, then it could be easily removed by moistening surface additionally. To achieve the optimal filling of the joint, make troweling of the grout several times in the same area. For clean and rapid grouting process we recommend to use a grouting box and sponge. While grouting earthenware tiles, it is recommended to pre-wet the open joints and the tile surface prior grout application. That helps to achieve the uniform hardening of grout and form a durable joint. Also, in that case is recommended to moisten the covering and the joints with a sponge and clean water or by moistening with a spray water after a waiting time of

approx. 2-3 hours. Due to different absorbency of natural stones, we recommend re-washing with a damp sponge. Marble, limestone and carbonate natural stones couldn't be cleaned with acid cleaners. Porous natural stones could become shady, but that doesn't depend on tile grout quality. While dealing with sensitive to discoloration natural stones, it is recommended to make grouting pre-test, evaluating the influence to natural stones discoloration. In individual cases pre-impregnation of natural stone could be carried out with a suitable impregnation. While dealing with highly absorbent natural stones or highly absorbing ceramic tiles, the grout should be re-moistened during the first 3 days after grouting. While dealing with applications in the outdoor areas, it is highly recommended to re-moisten the grout within the first 3 days after grouting. Such treatment ensures the optimal grout hardening. Use a suitable Casco® sealant for filling movement joints.

CLEANING OF EQUIPMENT

Clean tools in water immediately after use.

IMPORTANT CONSIDERATIONS

Observe the powder/water mixing ratio. Do not mix more material than can be handled within 30 minutes. Material that has already been set couldn't be re-mixed with additional of water or powder. Light colours may become dirty faster than dark colours, especially on floor and in outdoor areas. Protect ceramic coverings during and after grouting against direct sunlight and draughts. Do not cover not fully hardened joint with a plastic foil or similar coverings as that might cause grout discolourations. Uneven distribution of moisture in the grout, caused by for ex. tile adhesive or different absorbency of ceramic tile shards may result the colour shading of the grout. That doesn't depend on the quality of the grouting material and that effect is normally gone as soon as building conditions become good. We do not accept any warranty for differences in the colour tone. All values are approximate and are subject to local climatic fluctuations. All information applies to standard conditions. While selecting the grout, we recommend to consult the specifications of ceramic tile or stone manufacturer. Slight colour deviations are possible within different product batches. Therefore use only grouting mortar with the same batch number within the same area. For the maintenance and cleaning of the grouted surfaces we recommend to use only neutral cleaning agents. After cleaning, the surface should be rinsed with clean water. Casco® Design Premium is not acid-resistant. Acid cleaners, for ex. based on citric acid, acetic acid or other acids may lead to the longterm

damages of the grout. Therefore cleaning preferably should be done by using neutral or slightly alkaline cleaning agents. When using these cleaning agents, observe the instructions of the manufacturer and avoid too high cleaner concentrations. Improper cleaning voids the warranty. The grout should be moistened prior using acid cleaning agents in order to fill the mortar pores with water. After cleaning the surfaces should be rinsed with a clean water to neutralise the cleaner. The areas, grouted with Casco® Design Premium, could be cleaned with household steam cleaners (without using abrasion pads) 7 days after grouting.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safety handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Casco products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our

current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or on the website www.casco.eu.

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