

CRISTALLFUGE

Cementitious joint mortar

August 2024

PRODUCT FEATURES:

- Cementitious joint mortar
- CG2 in accordance with DIN EN 13888
- Joint widths from 1 mm to 6 mm
- Pot life of ca. 60 minutes

ADVANTAGES:

- Tested system product
- Convenient wash-off properties
- Fine surface

AREAS OF APPLICATION:

- For grouting tiles and boards made of vitrified tiles and earthenware
- For heated and unheated substrates
- For walls and floors
- For interior



TECHNICAL DATA:

Material properties	
Product components	1 component system
Base material	Cementitious aggregates Special cement Additive
Bulk density of fresh mortar	Approx. 1.9 kg/dm ³

Mixing	
Maturing time	Approx. 2 minutes
Water addition	From 1.25 litres to 1.5 litres

Application	
Substrate temperature	From 5°C to 25°C
Pot life	Approx. 60 minutes
Foot traffic after	Approx. 12 hours
Application temperature	From 5°C to 25°C
Hardening time / full resilience	Approx. 2 days

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MATERIAL CONSUMPTION:

Material consumption rate according to the area of application.

Tile format (in cm)	Joint width (in mm)	Joint depth (in mm)	Approx. consumption/m ² (in kg)
2.0 x 2.0	1.5	2.0	0.58
10.0 x 10.0	3.0	6.0	0.70
15.0 x 15.0	3.0	6.0	0.49
20.0 x 20.0	3.0	8.0	0.49
20.0 x 25.0	3.0	8.0	0.45
30.0 x 30.0	5.0	8.0	0.55
30.0 x 40.0	4.0	10.0	0.48
30.0 x 60.0	4.0	10.0	0.41

APPLICATION TECHNOLOGY:

Aids/tools

- Jointing board
- Stirrer
- Clean mixing bucket
- Sponge board

SUITABLE COVERING:

Mosaic

SUBSTRATE PREPARATION:

Requirement for substrate

- Dry
- Clean
- Free from adhesion inhibiting substances

Preparing the details

1. After the bedding mortar sets, scratch out the joints sufficiently deep.
2. Next, clean the tiled finish damp.
3. The bedding mortar must be fully set, as otherwise, joint discolourations may occur.
4. Pre-moisten strongly absorbing coverings with water equally.
5. Joint edges must be clean and free of separating substances.
6. The time of tile grouting depends on the thin-bed mortar used.
7. Do not grout on surfaces with different surface temperatures (e.g. due to sun exposure).

USAGE:

Mixing

1. The consistency of joint mortar must be specified depending on the absorbency of the laying material and substrate.
2. The mix ratio must be kept the same in order to avoid colour differences.
3. Put the water into a clean mixing bucket and mix with the powder component with a stirrer to produce a homogeneous, lump-free mass.
4. After a setting period of ca. 2 minutes, thoroughly homogenise the compound again.

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Application

1. CRISTALLFUGE is added to the wall and floor areas with a suitable jointing board by exerting slight pressure.
2. Strike off diagonally to the joint cleanly so that the joint cross-section is filled totally.
3. After the joint mortar has sat (check using a finger test), wash the joint contours clean with a moist sponge board.
4. Wash off again with a sponge board after a few minutes.
5. Keep movement joints for elastic grouting with ECOSIL-2000 free.
6. Scrape out mortar residues after the mortar has sat and wash away with a slightly damp cloth.
7. Wash any mortar film remaining off with a sponge board and clean water after a few hours.
8. The fresh grouting must be protected from influences that damage drying, such as high temperatures, wind, rain, or frost.
9. If weather conditions are poor (low humidity, draughts, wind) and the ceramic shards are highly absorbent, the joint cross-section must be cured with clean water (re-wet with a sponge board).
10. Replace the water arising from washing off on a regular basis.
11. We recommend performing trial jointing (pre-wet the surface if necessary or impregnate with suitable materials prior to grouting) on coatings with profiled, rough, unglazed or porous surfaces.
12. The washing time depends on the coating material and the prevailing climate.
13. After sufficient standing time, smooth the surface slightly without washing the joint out.
14. In order to perform a complete filling in one application step, only remove the excess joint mortar after a short standing time (30-60 sec.).

Cleaning tools

Clean tools thoroughly with water after use.

STORAGE CONDITIONS:

Storage

Store in a cool and dry place. Max. 12 months in the original canister. Promptly use opened canister.

Disposal

Product leftovers can be disposed of in accordance with the disposal code AW 17 01 01.

Notes

- Protect surfaces that are not to be treated from the effects of CRISTALLFUGE.
- Do not add water or new mortar to existing CRISTALLFUGE mortar that has already set in order to make it workable again. (Risk of inadequate strength development).
- We recommend using neutral or slightly alkaline cleaning materials in the prescribed application concentrations for regular care and cleaning on the grouted surfaces. Rinse the surface with clean water after cleaning.
- The applicable regulations must be observed if cleaning materials containing acid are used. Pay attention to the product-specific properties of the laying materials. Pre-dampen the joints and then apply the cleaning materials at a low application concentration. The cleaner's action time must be kept to a minimum. Then wash it off with a large amount of clean water. Cleaning materials containing acid impair the joint mortar's strength and can even destroy the grout matrix totally if used improperly, e.g. doses that are too high, excessive action times or no pre-wetting the grout net.
- Only use clean water and clean tools.
- Clean the grouted surfaces including the joint chambers thoroughly before starting grouting.
- Observe the setting times for adhesive and mortar. Premature grouting poses the risk of uneven colours in the grout finish.
- Protect the freshly applied joint mortar from sunlight, high temperatures, draughts, moisture and frost (until it reaches its final strength).
- Close joints between covering fields, assembly parts, pipe penetrations and corner and connecting joints elastically using ECOSIL-2000-ST or ECOSIL-2000 depending on the application.
- Uneven moisture penetration due to the sub-base, mortar bed, temperature differences or coating material can cause colour variations in the grout finish. These do not affect the joint mortar's quality and can be rectified increasingly by favourable ambient conditions. For this reason, the coloured appearance of the joint same rods may differ from the actual joint colour. No guarantee for differences in colour.

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- If there are higher mechanical loads, e.g. due to cleaning devices or chem. exposure, we recommend using the ASODUR-EKF or CRISTALLFUGE-EPOX heavy-duty, 2 component epoxy resin joint as the joint material if the production specific properties of the natural stone material will allow this.
- When grouting natural and synthetic stone tiles, take into account the specific properties (tendency to discolour). Perform trial jointing if in doubt.

HEALTH AND SAFETY:

Health and Safety information can be found on the Safety Data Sheet (SDS).

GISCODE: ZP1

WARNINGS AND BANS:

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?	No
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MANUFACTURERS CONTACT DETAILS:

Manufacture location	Germany
Legal and trading name of manufacturer	SCHOMBURG GmbH & Co. KG
Manufacturer address for service	Aquafinstr. 2-8 D-32760 Detmold (Germany)
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