

# CRISTALLFUGE-PLUS

Multifunctional, flexible, fine-joint mortar, rapid setting 1 - 10 mm



Material number	Contents	Unit of quantity	Packaging	Colour
204205001	5	KG	Sachets	Bahama beige
204205002	5	KG	Sachets	beige
204205003	5	KG	Sachets	brown
204205004	5	KG	Sachets	caramel
204205005	5	KG	Sachets	graphite
204205006	5	KG	Sachets	Grey
204205007	5	KG	Sachets	jasmine
204205008	5	KG	Sachets	Jura beige
204205009	5	KG	Sachets	Medium grey
204205010	5	KG	Sachets	nut brown
204205011	5	KG	Sachets	pergamon
204205012	5	KG	Sachets	sand grey
204205013	5	KG	Sachets	silver grey
204205014	5	KG	Sachets	titanium grey
204205015	5	KG	Sachets	White
204205016	10	KG	Sachets	Grey
204205017	10	KG	Sachets	Medium grey
204205018	10	KG	Sachets	silver grey
204205019	10	KG	Sachets	titanium grey
204205020	10	KG	Sachets	White

# CRISTALLFUGE-PLUS

## Product features

- Cementitious all-purpose joint mortar
- CG2 WA in accordance with DIN EN 13888
- Rapid setting
- Joint widths von 1 mm bis 10 mm
- Pot life of ca. 30 - 45 minutes
- Foot traffic after ca. 2 hours

## Advantages

- Convenient washing window thanks to re-emulsifying formula
- Convenient compaction properties
- Fine grout finish - high degree of filling

## Areas of application

- For grouting tiles and boards made of porcelain stoneware, vitrified tiles, earthenware and natural stone
- For high quality ceramic coverings with high optical demands
- for heated and unheated substrates
- For walls and floors
- For interior and exterior use

## Existing test certificates

- Emission tests
- EMICODE licence

## 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 <sup>3</sup>

### Mixing

Maturing time	approx. 2 minutes
Water addition	from 1.2 l to 1.5 l

### Application

Substrate temperature	from 5 °C to 25 °C
Consumption	Depending on the tile format and the joint width and joint depth.
Foot traffic after	approx. 2 hours
Pot life	approx. 30 - 45 minutes
Application temperature	from 5 °C to 25 °C
Hardening time / full resilience	approx. 1 days

## CRISTALLFUGE-PLUS

### Material consumption

Material consumption rate according to the area of application

Format (cm)	Joint width (mm)	Joint depth (mm)	Approx. consumption (kg/m <sup>2</sup> )
2 × 2	1.5	2.0	0.6
2 × 2	1.5	10.0	2.9
10 × 10	3.0	6.0	0.7
20 × 30	3.0	8.0	0.4
30 × 30	3.0	10.0	0.4
30 × 40	3.0	10.0	0.5
30 × 60	3.0	10.0	0.3
30 × 60	3.0	20.0	0.6
30 × 90	3.0	20.0	0.6

### Application technology

#### Aids/tools

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

#### Manual processing

Trowel off with jointing board

### Substrate preparation

#### Preparing the details

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

### Usage

#### Mixing

1. Put the water into a clean mixing bucket and mix with the powder component with a stirrer to produce a homogeneous, lump-free mass.
2. After a settling period of ca. 2 minutes, thoroughly homogenise the compound again.
3. Do not mix more material than can be applied during the pot life.

## CRISTALLFUGE-PLUS

### Application

1. CRISTALLFUGE-PLUS is added to the wall and floor areas with a suitable jointing board by exerting slight pressure.
2. 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.
3. Do not use a dry cloth when cleaning, as this poses a risk of discolouration due to rubbing dried joint mortar into the joint that is still wet!
4. 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 the sponge board).
5. Keep movement joints for elastic grouting with ESCOSIL-2000 free.
6. Replace the water arising from washing off on a regular basis.
7. The washing time depends on the coating material and the prevailing climate.
8. Strike off diagonally to the joint cleanly so that the joint cross-section is filled totally.
9. The fresh grouting must be protected from influences that damage drying, such as high temperatures, wind, rain, or frost.
10. Wash any mortar film remaining off with the sponge board and clean water after a few hours.
11. Re-grout after a short waiting time (if required).
12. Scrape out mortar residues after the mortar has sat and wash away with a slightly damp cloth.
13. After sufficient standing time, smooth the surface slightly without washing the joint out.
14. After the joint mortar has sat (check using a finger test), wash the joint contours clean with a moist sponge board.
15. Wash off again with the sponge board after a few minutes.

### Cleaning tools

Clean tools thoroughly with water after use.

### Storage conditions

#### Storage

Store in a cool and dry place. Min. 18 months in the original canister. Promptly use opened canister.

### Disposal

Product leftovers can be disposed of in accordance with disposal code AVW 17 09 04.

### Emission behaviour / building certification systems

- Very low emissions in accordance with GEV-EMICODE, which normally results in positive evaluations within the scope of building certification systems in accordance with DGNB, LEED, BREEAM, HQE.
- Maximum quality level 4, line 8 in accordance with DGNB criteria "ENV 1.2 Risks to the local environment".

## CRISTALLFUGE-PLUS

### Notes

- Protect surfaces that are not to be treated from the effects of CRISTALLFUGE-PLUS!
- Do not add water or new mortar to existing CRISTALLFUGE-PLUS 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 ESCOSIL-2000-ST or ESCOSIL-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!
- 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 allow this!
- When grouting natural and synthetic stone tiles, take into account the specific properties (tendency to discolour). Perform trial jointing if in doubt!

GISCODE: ZP1

## CRISTALLFUGE-PLUS

### Annotations

#### Colours

	White
	titanium grey
	silver grey
	sand grey
	pergamon
	nut brown
	Medium grey
	Jura beige
	jasmine
	Grey
	graphite
	caramel
	brown
	beige
	Bahama beige

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