

CRISTALLFUGE-HF

High-strength flex joint mortar 3-20 mm



Material number	Contents	Unit of quantity	Packaging	Colour
205561001	25	KG	Bag	Medium grey
205561002	25	KG	Bag	Cement grey

Product features

- High-strength cementitious joint mortar
- CG2 WA in accordance with DIN EN 13888
- High strength, mechanically resistant
- Pot life of ca. 30 - 45 minutes
- Fully cured after ≥ 7 days

Advantages

- High resistance to acidic and alkaline cleaning materials
- Anti-fungal effect
- Highly abrasion-resistant

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Areas of application

- For grouting tiles and boards made of porcelain stoneware, vitrified tiles, brick slips and floor bricks
- To establish coverings in chemically and mechanically stressed areas such as industrial kitchens, laboratories, swimming pools or areas in the food and chemical industries
- For grouting surfaces with high mechanical effects, e.g. due to power sweepers or high pressure-waterjets
- for heated and unheated substrates
- For walls and floors
- For interior and exterior use

Technical Data

Material properties

Product components	1 component system
Base material	Cementitious aggregates Special cement Additive
Bulk density of fresh mortar	approx. 2.1 kg/dm ³

Mixing

Addition of water when adding ELECTRON-PLUS to produce conductivity	approx. 2.50 - 3.30 l
Mixing time	approx. 2 - 3 minutes
Maturing time	approx. 3 minutes
Water addition	from 4.1 l to 4.5 l

Application

Substrate temperature	from 5 °C to 25 °C
Pot life	approx. 45 minutes
Foot traffic after	approx. 6 hours
Pot life	approx. 30 - 45 minutes
Application temperature	from 5 °C to 25 °C
Hardening time / full resilience	approx. 7 hours

Application technology

Aids/tools

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

Substrate preparation

Requirement for substrate

1. Clean
2. Free of 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. In the event of thick-bed laying, the mortar bed must be sufficiently firm and evenly dry.
8. Do not grout on surfaces with different surface temperatures (e.g. due to sun exposure).

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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. The mixing time is ca. 2 - 3 minutes.
5. After a settling period of ca. 3 minutes, thoroughly homogenise the compound again.
6. Do not mix more material than can be applied during the pot life.

Application

1. CRISTALLFUGE-HF 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 the sponge board after a few minutes.
5. Keep movement joints for elastic grouting with ESCOSIL-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 the sponge board and clean water after a few hours.
8. 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!
9. The fresh grouting must be protected from influences that damage drying, such as high temperatures, wind, rain, or frost.
10. 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).
11. Replace the water arising from washing off on a regular basis.
12. 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.
13. The washing time depends on the coating material and the prevailing climate.
14. After sufficient standing time, smooth the surface slightly without washing the joint out.

Cleaning tools

Clean tools thoroughly with water after use.

Storage conditions

Storage

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

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Notes

- Protect surfaces that are not to be treated from the effects of CRISTALLFUGE-HF!
- Do not add water or new mortar to existing CRISTALLFUGE-HF 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!

Observe applicable safety data sheet!

GISCODE: ZP1

Annotations

Colours

	Cement grey
	Medium grey

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