

CRISTALLFUGE-EPOX

3 component reaction resin-paint mortar 1 - 15 mm



Material number	Contents	Unit of quantity	Packaging	Colour
204204001	3,5	KG	Combination packs	Medium grey
204204002	3,5	KG	Combination packs	graphite
204204003	3,5	KG	Combination packs	sand grey
204204004	3,5	KG	Combination packs	titanium grey
204204005	3,5	KG	Combination packs	Jura beige
204204006	3,5	KG	Combination packs	brown
204204007	3,5	KG	Combination packs	nut brown
204204008	3,5	KG	Combination packs	beige
204204009	3,5	KG	Combination packs	Bahama beige
204204010	3,5	KG	Combination packs	caramel
204204011	3,5	KG	Combination packs	Grey
204204012	3,5	KG	Combination packs	silver grey
204204013	3,5	KG	Combination packs	pergamon
204204014	3,5	KG	Combination packs	jasmine
204204015	3,5	KG	Combination packs	White

Product features

- 3 component reaction resin joint mortar
- RG in accordance with DIN EN 13888
- R2 T in accordance with DIN EN 12004
- High chemical and mechanical resistance
- Resistant to aggressive household cleaners
- Joint widths von 1 mm bis 15 mm
- Pot life of ca. 40 - 60 minutes

CRISTALLFUGE-EPOX

Advantages

- Tested system product
- Convenient and effortless work
- Up to 70% time saving when jointing when compared to conventional reaction resin joint mortars

Areas of application

- For grouting tiles and boards made of fine ware, vitrified tiles and porcelain stoneware
- 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 high quality ceramic coverings with a fine joint look
- for heated and unheated substrates
- For walls and floors
- For interior and exterior use

Technical Data

Material properties

Product components	3 component system
Base material	Filled epoxy resin
Bulk density of fresh mortar	approx. 1.55 kg/dm ³

Mixing

Mix ratio, component A	100 weight proportion
Mix ratio, component B	35 weight proportion
Mix ratio, component C	2.56 kg

Application

Substrate temperature	from 10 °C to 30 °C
Foot traffic after	approx. 16 hours
Pot life	approx. 40 - 60 minutes
Application temperature	from 10 °C to 30 °C
Washable after	approx. 15 minutes
Hardening time / full resilience	approx. 7 days

Application technology

Aids/tools

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

Suitable substrate

All substrates in accordance with DIN 18157, part 1

Substrate preparation

Requirement for substrate

1. Load-bearing
2. Dry
3. Even
4. Sealed in the surface
5. Free of cracks
6. Free of adhesion inhibiting substances

CRISTALLFUGE-EPOX

Preparing the surface

1. Calcium sulphate screeds must be roughened and vacuumed.
2. Prime calcium sulphate binded substrates with ASODUR-V360W and scatter quartz sand (\varnothing 0.2-0.6 mm).
3. Heated screeds must be heated in accordance with recognised standards before installation of coverings.
4. A moisture measurement must be carried out using the CM method to assess whether it is ready to receive. The CM measurement must be completed in accordance with the current working instructions FBH-AD from the technical information "Interface coordination with heated floor constructions".

Usage

Mixing

1. Add the hardener to the resin.
2. The hardener must run completely out of the container.
3. Mix thoroughly with the mixer until a homogeneous consistency.
4. The hardener must be distributed evenly.
5. The (ideal) material temperature during the mixing procedure is +15 °C.
6. Add the powder completely and mix until homogeneous.
7. Decant the mass into a clean bucket.
8. Stir meticulously again.

Application

1. CRISTALLFUGE-EPOX 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.

Adhesion of boards

1. Comb off evenly with a notched trowel. Choose a notched trowel that is suitable for the board size and the substrate.
2. Apply the boards by pushing them in and pressing them into place.
3. Apply in accordance with DIN 18157, part 3.
4. In exterior areas, application that is largely free of voids is required!

Grouting with compressed air guns

1. Decant CRISTALLFUGE-EPOX into a separate extraction container.
2. The cartridges are filled via a pressure plate.
3. A compressor with a capacity of at least 10 bar and a suction capacity of approx. 100 l/min. is required.

Rework of damaged cement joints

1. The joint depth must be at least 3 mm.
2. There must be a tile point adhesion for the CRISTALLFUGE-EPOX.
3. Re-bond loose tiles with CRISTALLFUGE-EPOX.
4. The joints must be dry, dust-free and free of adhesion-reducing substances.
5. Emulsification should be carried out as late as possible to prevent the fresh grout being washed out.

Physiological behaviour and protective measures

1. CRISTALLFUGE-EPOX is physiologically flawless after hardening completely.
2. The hardener (B-component) is corrosive. It is therefore imperative to ensure that the skin does not come into contact with the hardener. We recommend wearing protective gloves when working.
3. Clean any soiling with plenty of water and soap, preferably with the addition of 2% household vinegar.
4. If splashes get into the eyes, rinse immediately with plenty of water. Afterwards, rinse with an eye wash bottle filled with boric acid water - available in medical supply shops - then consult an ophthalmologist immediately. Always observe the general protective regulations of the Employer's Liability Insurance Association.
5. Caution! Hardener is caustic! Harmless after reaction. Not intended for general public use; for commercial applications only.

Cleaning tools

Clean with warm, pressure-free water when fresh.

CRISTALLFUGE-EPOX

Storage conditions

Storage

- Store in a frost-free, cool and dry place. At min. 10 - 25 °C for 12 months in the original canister. Promptly use opened canister.
- The resin may crystallise at lower temperatures. To return it to the original condition, store the containers for a few hours at temperatures of approx. +35°C to +50°C. Cool the containers back down to application temperature before application.

Disposal

- A-component: AVV 08 04 09
- B-component: AVV 08 01 11
- C-component: Bauschutt

Notes

- Protect surfaces that are not to be treated from the effects of CRISTALLFUGE-EPOXI!
- Use material with the same batch number within a room!
- When grouting natural and synthetic stone tiles, take into account the specific properties (tendency to discolour). Perform trial jointing if in doubt!
- Exposure to abrasive stresses during use may cause scratches in the surfaces which will be visible particularly in the case of dark colour shades. This will not have a negative impact on functional capability. We recommend cleaning and treating the surfaces on a regular basis with suitable cleaning and care agents in order to maintain the surface quality and appearance during use.
- At low temperatures, we recommend heating the material in a water bath at approx. +50 °C before use and then letting it cool down to room temperature. This restores the application properties.
- Low object temperatures increase consumption. The material thus loses its good workability and the reaction times are prolonged.
- Higher temperatures shorten the pot life. ASODUR®-EKF is classified in accordance with the German Ordinance on Hazardous Substances (GefStoffV).
- Slight colour differences, caused by different production batches and raw material fluctuations, are unavoidable. Neighbouring surface sections should be coated using the same production batch (same batch no. on the delivered packaging).
- Contaminated washing water with a maximum concentration of 5% resin mixture is subject to the EWL (European Waste List) code 20 01 30 as municipal waste.

Planning, inspection of substrates and building site circumstances, laying, grouting and subsequent care of the work must be done in accordance with the relevant DIN standards and recognised rules of technology (e.g. the ZDB sheets of the Zentralverband Deutsches Baugewerbe e.V.) in the latest version.

Observe applicable safety data sheet!

GISCODE: RE 30

CRISTALLFUGE-EPOX

Annotations

Colours

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

CRISTALLFUGE-EPOX

Chemical durability

	Medium	Concentration	CRISTALLFUGE-EPOX
Acids	Formic acid	2%	■
	Formic acid	5%	■
	Acetic acid	2%	■ ■
	Acetic acid	5%	■
	Acetic acid	10%	■
	Lactic acid	2%	■ ■
	Lactic acid	5%	■ ■
	Lactic acid	10%	■ ■
	Oxalic acid	2%	■ ■
	Oxalic acid	5%	■ ■
	Phosphoric acid	2%	■ ■
	Phosphoric acid	5%	■ ■
	Phosphoric acid	10%	■ ■
	Nitric acid	3%	■ ■
	Hydrochloric acid	3%	■ ■
	Hydrochloric acid	32%	■
	Sulphuric acid	50%	■
	Tartaric acid	2%	■ ■
	Tartaric acid	5%	■ ■
	Citric acid	2%	■ ■
Citric acid	5%	■ ■	
Citric acid	10%	■ ■	
Alkaline solutions	Ammonia	5 to 10%	■ ■
	Ammonia	25%	■
	Calcium hydroxide	2%	■ ■
	Calcium hydroxide	10%	■ ■
	Calcium hydroxide	30%	■ ■
	Chlorine bleach	28%	■
	Caustic potash	2%	■ ■
	Caustic potash	10%	■ ■
	Caustic potash	20%	■ ■
	Caustic potash	30%	■ ■
	Sodium hydroxide	2%	■ ■
	Sodium hydroxide	10%	■ ■
	Sodium hydroxide	20%	■ ■
Sodium hydroxide	30%	■ ■	
Sodium hypochloride	13%	■ ■	
Oils	Heating oil/diesel		■ ■
	Heating oil/diesel	neat	■ ■
	Hydraulic oil		■ ■
	Engine oil	neat	■ ■
	Olive oil	neat	■ ■
	Paraffin oil	neat	■ ■
	Silicone oil	neat	■ ■
	Sunflower oil	neat	■ ■
	Cooking oil		■ ■
	Turpentine	neat	■

	Medium	Concentration	CRISTALLFUGE-EPOX
Solvents	Acetone	neat	■
	Butanol	neat	■
	Ethanol	neat	■
	Ethyl acetate		■
	n-hexane	neat	■
	Isopropanol	neat	■
	Petroleum ether		■
	Toluene	neat	■
	Xylene	neat	■
	Cleaners, disinfectants	Anti Germ MS liquid, contains sodium hydroxide and alkylbenzylidimethyl-ammonium chloride, 5 ml/l water	
Anti Germ Nepurin HD, contains phosphoric acid and alkylbenzylidimethyl-ammonium chloride, 30 ml/l water			■
Anti Germ SVM liquid, contains sulphuric acid and aminotrimethylene phosphonic acid, 30 g/l water			■
Anti Germ SX liquid, contains phosphoric and nitric acid, 12.5 ml/l water			■
Ecolab Benduro forte, contains phosphate and fatty alcohol ethoxylate, 1:5 diluted with water			■
Ecolab Helotil, contains phosphoric acid, 1:10 diluted with water			■
Ecolab Into, contains sulphamic acid and ethanol, 12.5 ml/l			■
Ecolab Segil 2000, contains alkyl polyglycosides, citric acid and ethanol, 12.5 ml/l			■
Petrol		neat	■
DI Water		neat	■ ■
Miscellaneous	Developer solution		■
	Formaldehyde		■
	Glycerine		■
	Glycerine	neat	■
	Glycol		■
	Urine, human/livestock		■
	Whey	neat	■
	Sodium chloride, 35% in water		■ ■
	Sodium sulphate, 20% in water		■ ■
	North Sea water		■ ■
Water, 5° dH		■ ■	
Water, 15° dH		■ ■	
Hydrogen peroxide	10 %	■ ■	
Anti Germ SVM liquid	neat	■ ■	

Legend:
 ■ ■ = highly resistant > 14 d
 ■ = medium resistant > 8 to < 72 h
 ■ = low resistant < 8 h

The rights of the buyer with regard to the quality of our materials are based on our terms and conditions of sale and delivery. Our technical advice team will be happy to advise you in the case of requirements that exceed the scope of the application described here. In order to be binding, a legally binding written confirmation is required. The product description does not release the user from a duty of care. Lay a test area in the event of uncertainty. This version becomes invalid in the event of a new version being issued.