

ASODUR®-EKF

Heavy-duty epoxy resin adhesive and joint mortar 1-20 mm



Material number	Contents	Unit of quantity	Packaging	Colour
205752001	6	KG	Bucket	Medium grey
205752002	6	KG	Bucket	titanium grey

Product features

- Epoxy resin adhesive and joint mortar
- R2 T in accordance with DIN EN 12004
- RG in accordance with DIN EN 13888
- Joint widths von 1 mm bis 20 mm
- High chemical and mechanical resistance
- Pot life of ca. 60 minutes
- Can be walked on and joined after ca. 16 hours

Advantages

- Highly resistant to acids and alkaline solutions
- Resistant to mechanical influences such as power sweepers
- Easy to wash

Areas of application

- For laying and grouting tiles & boards
- 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 heated and unheated substrates
- For walls and floors
- For interior and exterior use

ASODUR®-EKF

Technical Data

Mixing

Mix ratio, component A	1000 weight proportion
Mix ratio, component B	62 weight proportion

Application

Substrate temperature	from 10 °C to 30 °C
Pot life	approx. 60 minutes
Foot traffic after	approx. 16 hours
Application temperature	from 10 °C to 30 °C

Material consumption

Material consumption rate according to the area of application

Material rate:

- Bonding: approx. 1.4 kg/m² and mm layer thickness
 - approx. 2.8 kg/m² with 6 mm notched trowel
 - approx. 3.8 kg/m² with 8 mm notched trowel
 - approx. 4.7 kg/m² with 10 mm notched trowel
 - approx. 7.4 kg/m² with 15 mm notched trowel

- Grouting:

Ceramic cladding materials	Format size in cm	Joint width in mm	Approx. consumption in kg/m ²
Split boards	24.0/11.5/1.5	8	2.25
		10	2.77
	24.0/11.5/2.0	8	3.00
		10	3.70
	24.0/11.5/2.5	8	3.75
		10	4.62
Medium mosaic	5.0/ 5.0/0.4	2	0.47
Vitrified tiles	4.2/ 4.2/0.6	1.5	0.64
		3	0.81
	15.0/15.0/1.2	5	1.19
		5	0.74

Substrate preparation

Requirement for substrate

1. Dry
2. Firm
3. Load-bearing
4. Free of cracks
5. Protected from moisture penetration from the rear
6. Free of adhesion inhibiting substances

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Substrate quality class

Concrete quality class, PCC mortar (in accordance with DIN EN 1504-3):	at least C 20/25, minimum 3 months old, surface tensile strength $\geq 1.2 \text{ N/mm}^2$
Plaster quality class:	Cement and lime-cement plaster (P III a/P III b), at least 28 days old, surface tensile strength $\geq 0.8 \text{ N/mm}^2$
Screed quality class	min. CT-C25-F4, at least 28 days old, surface tensile strength $\geq 0.8 \text{ N/mm}^2$. In the context of tiles and panel coverings on a separating layer or insulation, a moisture content of $\leq 2 \text{ CM} \%$ must be maintained.

Preparing the surface

1. Heated screeds must be heated in accordance with recognised standards before installation of coverings.
2. 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. Decant the mixture and stir again before application.

Adhesion of boards

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

Grouting of tiles and boards in screening process

1. Apply the mixed ASODUR[®]-EKF to the surface in portions.
2. Use an epoxy jointing board to insert directly into the clean and dry joints.
3. Fill the joints completely.
4. Strike off and remove the excess material in a diagonal direction to the grout line using the epoxy jointing board.
5. Use water and the hydro sponge board to emulsify material residues on the coating surface and the joints, and then clean with clear water.
Avoid material and water residues.

Grouting with compressed air guns

1. Decant ASODUR[®]-EKF 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.
4. Use water and the hydro sponge board to emulsify material residues on the coating surface and the joints, and then clean with clear water.
Avoid material and water residues.

Rework of damaged cement joints

1. The joint depth must be at least 3 mm.
2. Re-bond loose tiles with ASODUR[®]-EKF.
3. The joints must be dry, dust-free and free of adhesion-reducing substances.
4. Use water and the hydro sponge board to emulsify material residues on the coating surface and the joints, and then clean with clear water.
Avoid material and water residues.

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Physiological behaviour and protective measures

1. ASODUR[®]-EKF 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.

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.

Disposal

- Resin component: AVV 08 04 09
- Hardener component: AVV 08 01 11
- Hardened product leftovers can be disposed of in accordance with disposal code AVV 17 02 03.

Notes

- 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).
- Observe the technical data sheets of the products mentioned before starting work.
- 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.
- For detailed information on application, read and observe supplementary technical information no. 19 "Applying ASODUR[®] products".

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: RE30

Annotations

Colours

	titanium grey
	Medium grey
	Black

ASODUR®-EKF

Chemical durability

	Medium	Concentration	ASODUR®-EKF
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	10%	■ ■
	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 hypochlorite	13%	■ ■	
Oils	Heating oil/diesel		■ ■
	Heating oil/diesel	pure	■ ■
	Hydraulic oil		■ ■
	Engine oil	pure	■ ■
	Olive oil	pure	■ ■
	Paraffin oil	pure	■ ■
	Silicone oil	pure	■ ■
	Sunflower oil	pure	■ ■
	Cooking oil		■ ■
	Turpentine	pure	■

	Medium	Concentration	ASODUR®-EKF
Solvents	Acetone	pure	■
	Butanol	pure	■
	Ethanol	pure	■
	Ethyl acetate		■
	n-hexane	pure	■
	isopropanol	pure	■
	Petroleum ether		■
	Toluene	pure	■
	Xylene	pure	■
	Cleaners, disinfectants	Anti Germ MS liquid, contains sodium hydroxide and alkylbenzyl-dimethyl-ammonium chloride, 5 ml/l water	
Anti Germ Nepurin HD, contains phosphoric acid and alkylbenzyl-dimethyl-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 with 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		■	
Miscellaneous	Petrol	pure	■
	DI Water	pure	■ ■
	Developer solution		■
	Formaldehyde		■
	Glycerine		■
	Glycerine	pure	■
	Glycol		■
	Urine, human/livestock		■
	Whey	pure	■
	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	pure	■ ■	

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

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