

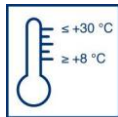
Technical Information Sheet
Article No. 0916, 6364

Epoxy FAS 100

Substrate tolerant, transparent epoxy resin



Mixing ratio
2 components



Working
temperature



Mixing time



Brush, roller,
apply standing



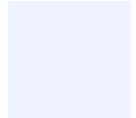
Pot-life



Store frost-free



Shelf-life



Range of use

Epoxy FAS 100 is an unpigmented epoxy resin binder that is used as an impregnation agent, primer, levelling layer and for the production of compression resistant mortars, flow mortars, blinding layers for blinded covers. It is also used as a special primer under polyurethanes:

Application examples:

- Consumer markets
- Shops
- Fabrication halls
- Assembly areas
- Food industry
- Butcher operations
- Bakeries

Property profile

Epoxy FAS 100 is a transparent, 2-component, liquid epoxy resin on a bisphenol A/F-base.

- Ideal beneath PUR coatings
- Substrate tolerant
- Good penetration capacity
- Plasticizer-free

Characteristic data of the product

	Comp. A	Comp. B	Mixture
Density:	1.16 g/cm ³	0.97 g/cm ³	1.08 g/cm ³
Viscosity:	950 mPas	750 mPas	1100 mPas
Compressive strength:	1 : 10 mortar*		
Flexural/tensile strength:	56 N/mm ²		
	23N/mm ²		
* Epoxy resin mortar with standard sand			

- Free of nonylphenol and alkenylphenol
- Can be subjected to mechanical loads
- Can be subjected to chemical loads

Substrates can be humid or matt damp but must not have any standing water.

- Concrete max. 6% by mass
- Cement screed max. 6% by mass

Substrate

The substrate must be load-bearing, form stable, sound, free of loose material, dust, oil, grease, rubber marks and other substances with a parting effect. The tensile strength on the surface of the substrate must be 1.5 N/mm² on average, compressive strength at least 25 N/mm².

Suitability for coating must be tested on steel, stainless steel, aluminium and ceramic covers. If necessary, set up trial areas.

They must also be suitable for blasting or sanding and should not be exposed to greater temperature fluctuations (vapour pressure). On matt damp substrates, a primer

and scratch coat are required as a rule.

Substrate preparation

Substrates should be prepared by suitable chemical or mechanical means, e.g. steel ball jetting or diamond sanding so that they fulfil the listed requirements. Missing and broken out areas in the substrate should be filled/closed flush with the surface using the Remmers EP Mortars.

Directions

Tin can:

Add the entire quantity of the hardener (component B) to the resin compound (component A). Mix with a slow speed, electric mixer (approx. 300-400 rpm), then pour into a separate container and mix again thoroughly.

Multi-chamber bag:

Open the outer packaging along the perforation and remove the transparent, multi-chamber bag. Then remove the dividing strip between the 2 components. Mix the two components together by kneading the contents in the bag intensively (approx. 60 seconds).

For filled systems, the corresponding quantity of filler is added to the epoxy resin mixture while stirring slowly, mixing thoroughly.

Directly after preparation, the mixture is poured onto the prepared surface and distributed by suitable means.

Mixing ratio

71 : 29 parts by weight

Pot-life

At 20 °C and 60% relative humidity approx. 30 minutes. Higher temperatures reduce, lower temperatures increase pot-life.

Notes on working

Please mind suitable protective equipment on the job (q.v. personal protective equipment).

Application method:

Depending on application with a rubber wiper, epoxy roller or smoothing trowel

Waiting period:

The waiting time between working operations at 20 °C should be at least 16 hours and max. 2 days. If waiting time is longer than 48 hours, the surface of the last applied material must be blinded with fire-dried quartz sand.

The time given is reduced at higher temperatures and increased at lower temperatures.

Working temperature:

The temperature of the resin mixture, surrounding air and substrate must be at least 8 °C and not higher than 30 °C. Relative humidity should not exceed 80 %. The substrate temperature must be at least 3 °C above the dew point temperature.

Drying time:

At 20 °C and 60% relative humidity: foot traffic after 16 hours, mechanical loads after 2 days, fully cured after 7 days. At lower temperatures correspondingly longer.

Protect the applied material from moisture during the curing process (approx. 24 hours at 20 °C) since the surface may be disturbed and adhesion reduced otherwise.

Application examples

Priming:

The pure resin is poured generously over the surface and distributed by suitable means, e.g. a rubber wiper, so that the pore volume of the substrate is completely filled. Then work into the substrate with an epoxy roller. Application rate depending on substrate and application approx. 0.30-0.50 kg/m².

Levelling layer/scratch coat:

The material which has been filled up to 1 : 1 parts by weight is distributed with a smoothing trowel or priming blade and if necessary worked over with a spiked roller. Application rate per mm thick layer: approx. 0.85 kg/m² epoxy

resin and 0.85 kg/m² Remmers Quarz 01/03.

Tools, cleaning

Smoothing trowel, toothed trowel, rubber wiper, epoxy roller, spiked roller, mixing equipment, also positive mixer. For further information are found in our tools programme.

Clean tools and equipment immediately while the material is still fresh with V 101 Thinner.

When cleaning, take suitable protective measures (see Personal protective equipment).

Personal protective equipment

Suitable nitrile rubber gloves (e.g. Tricotril made by KCL), protective glasses, splash protection, long-sleeve shirt or arm protectors.

Notes

All of the values given were measured in laboratory conditions (20°C) and with standard colours.

When worked at the building site, values as well as the degree of filling and application rates specified may deviate from the values given in this Technical Information Sheet.

The primer used must fill pores! Two coats of primer or a higher application rate may be necessary to fill all pores.

Abrasive mechanical loads will cause wear marks on the surface of the coating. Not suitable for vehicles with metal or polyamide tyres!

When worked at successional surfaces, materials with similar bath numbers may just be processed because it possibly amounts to differences in colour, constitution or brilliance.

Because of the varying absorption capacity of cementitious substrates, impregnated surfaces look spotty.

Epoxy resins are not colourfast in general when exposed to UV-light and weather.

Further notes on working and maintenance of the listed products

are found in the latest Technical Information Sheets as well as in Remmers notes on placing floor covers.

Packaging, application rate, shelf-life

Packaging:

Art. No. 6364, Multi-chamber bag:
2,5 kg

Art. No. 0916, Tin cans:
10kg and 25 kg

Application rate:

Depending on application between 0.2-0.85 kg/m²

Shelf-life:

At least 12 months in closed and unmixed, original containers stored cool but frost-free.

Safety, ecology, disposal

Further information on safety when transporting, storing and handling as well as disposal and ecology is found in the latest Safety Data Sheet and the brochure "Expoxidharze in der Bauwirtschaft und Umwelt" of the German construction chemistry (2. issue, status 2009)

GISCODE: RE 1


VOC content:

EU limit value for the product (Cat. A/j): max. 500 g/l (2010).
This product contains < 500 g/l

Emergency Information:

Mon.- Tues. from 7:30 a.m. to 4:00 p.m.,
Fri. from 7:30 a.m. to 2:00 p.m.
Product Safety Department:
Tel.: +49(0)5432/83-138

After office hours:
Tel.: +49(0)5961/919547
Mobile: +49(0)171/6428297
Fax: +49(0)5961/919548

	
Remmers Baustofftechnik GmbH Bernhard-Remmers-Straße 13 D-49624 Lönninge 10 GBIII 015_3	
EN 13813:2002 0916 Synthetic resin screed for use internally in buildings	
Reaction to fire	E _{fl}
Release of corrosive substances	SR
Wear resistance	≤ AR1
Bond strength	≥ B1.5
Impact resistance	≥ IR4

The statements above are compiled from our field of production and according to the latest technological developments and application techniques.

Since application and working are beyond our control, no liability of the producer can be derived from the contents of this information sheet. Any statements made beyond the contents of this information must be confirmed in writing by the producer.

In all cases, our general conditions of sale are valid. With the publication of this Technical Information Sheet all previous editions are no longer valid.

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