

# KLB-SYSTEM EPOXID

## EP 85 Fein NEU

Ready-to-use, finely grained, stable 2-component epoxy resin mortar for producing concave coverings and for repair works

### Packaging units

Article no.	Content (kg)	Units/pallet
AK8803-14	15.00 kg	30



### Product characteristics

Mixing ratio parts by weight	A : B = 100 : 5.25
Processing time	10 °C / 50 °F : 70 min. 20 °C / 68 °F : 40 min. 30 °C / 86 °F : 25 min.
Processing temperature	Minimum 10 °C / 50 °F (room and floor temperature)
Curing time (accessibility)	10 °C / 50 °F : 14 - 20 hrs. 20 °C / 68 °F : 8 - 10 hrs. 30 °C / 86 °F : 5 - 7 hrs.
Curing	2 - 3 days until mechanical load at 20 °C / 68 °F 7 days until chemical load at 20 °C / 68 °F
Further coatings	After 8 - 10 hours, but after 48 hours at the latest at 20 °C / 68 °F
Consumption	Approx. 1.9 kg/m <sup>2</sup> /mm Concave coverings: approx. 1.8 - 3.5 kg/running meter
Layer thickness	Starting from 0.5 mm
Shelf life	12 months (originally sealed)

### Product description

**KLB-SYSTEM EPOXID EP 85 Fein NEU** is a stable 2-component epoxy resin repair mortar, which can be used above all for producing concave or triangular coverings. In addition to this, also for filling break-outs, damage spots or holes as well as for producing levelling layers and ramps, whenever there is need for a stable compound. Also for subsequent coatings.

**KLB-SYSTEM EPOXID EP 85 Fein NEU** is supplied as ready-to-use compound with a stable consistency in components matched to each other. The product is characterised by its shrinkage-free and rapid curing.

With its fine-grained composition, **KLB-SYSTEM EPOXID EP 85 Fein NEU** can be pulled down to zero, which leads to non-porous surfaces that can be easily finished. The smooth and stable setting is particularly suitable for the production of concave or triangular coverings. On-site mixing is no longer necessary.

**KLB-SYSTEM EPOXID EP 85 Fein NEU** offers the advantage of uniform consistency and quality as a ready-to-use product. This allows for easy and quick processing, which makes it possible to model coverings in uniform appearance.

Use **KLB-SYSTEM EPOXID EP 85 Fein NEU** for dimension-stable substrates like concrete C20/25 or cement screed e.g. CT-C35-F5 (ZE 30). After complete curing, the material shows high compressive strength and is suitable for all common tasks on industrial or commercial flooring.

#### Area of application

- For producing dense concave or triangular coverings.
- Stable reactive resin mortar for repair works on concrete floors or screed before the application of coatings.

#### Product features

- Total Solid according to GISCODE (Test method "Deutsche Bauchemie")
- ready-to-use
- impervious surfaces
- all-purpose use
- stable setting
- free of deleterious substances against varnish
- for renovations and repair works

#### Technical data

Solid content	100	%	KLB method
Density - Component A+B	1.88	kg/l	DIN EN ISO 2811-2 (20 °C / 68 °F)
Bending tensile strength	30	N/mm <sup>2</sup>	DIN EN 196/1
Compressive strength	75	N/mm <sup>2</sup>	DIN EN 196/1
Shore-hardness D	83	-	DIN 53505 (after 7 days)

The values established in tests are average values. Deviations from the product specification may occur.

#### Build-up of coats

- Prepare the substrate mechanically. Remove any loose and brittle parts by mortising, grinding or shot-blasting and vacuum thoroughly.
- Prime with **EP 50**, **EP 51 RAPID S**, **EP 52 Spezialgrund** or **EP 52 RAPID** using a rubber squeegee or roller. On smaller areas, it is possible to work "wet-in-wet". Scatter off the base coat not in full with quartz sand if needed.
- Form coverings accordingly using **EP 85 Fein NEU**, then compact and smooth.
- Subsequent build-up of coats depending on the requirements.

#### Substrate

The substrate to be coated must be even, dry, free of dust, sufficiently resistant to tension and compression as well as be free from weakly-bonded components or surfaces. Materials impairing adhesion such as grease, oil and paint residues should be removed with suitable measures. Observe the information issued by the trade associations, e.g. the most recent versions of BEB worksheets KH-0/U and KH-0/S as well as the notes provided in the product information for the products used. Surfaces suitable for coating are concrete (at least C20/25) and cement screed at least CT-C35-F5, as well as other sufficiently solid substrates. The substrate has to have adequately high strength for the intended occupational use. The substrates to be coated should be prepared mechanically, preferably by shot-blasting. The surface strength must then be at least 1.5 N/mm<sup>2</sup>. For concrete, moisture content must not exceed 4.5 CM-%, remaining residual humidity. Old substrates must be cleaned before any mechanical preparation. If old synthetic resin surfaces are being sealed, it is necessary to check that sufficient adhesion is achieved. If in doubt, we recommend processing a sample area.

#### Mixing

Combo-packaging will be supplied in the correctly measured mixing ratio. The package of Component A has sufficient volume to contain the entire packaging unit. Empty all of the hardener compound B into the resin component A. Blend with a slow speed mixer (200 - 400 r/pm) for at least 2 - 3 minutes until a homogeneous, streak-free compound forms.

### Processing

Apply the material right after mixing on the prepared surface. Spread the mortar on the substrate, pull off with a lath or smoothing trowel, then compact and smooth. For coverings, spread the material in a sufficient quantity into the corner, pull it off and compact it with a suitable tool. Good compaction is necessary to achieve compressive strength. Tools can be cleaned in the meantime with small quantities of **VR 24**.

Floor and air temperature must not fall below 10 °C / 50 °F and humidity should not exceed 75 %. The difference in floor and room temperature must remain less than 3 °C / 3 K / 5,4 °F so as not to impede the curing process. If a dew-point situation arises, regular curing will not be possible with hardening problems to occur. The specified curing times apply for 20 °C / 68 °F. Lower temperature may increase; higher temperature may decrease the curing and processing times. If the working conditions are not complied with, the technical properties of the end product may deviate from those specified.

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### Cleaning

To remove fresh contamination and to clean tools, use thinner **VR 24** or **VR 33** immediately. Hardened material can only be removed mechanically.

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### Storage

Store in dry and if possible, in frost-free conditions. Ideal storage temperature is between 10 - 20 °C / 50 - 68 °F. Bring to a suitable working temperature before application. Tightly re-seal opened containers and use the content as soon as possible.

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### Special remarks

The product is regulated by the German Ordinance on Hazardous Substances (GefStoffV), the German Ordinance on Industrial Safety and Health (BetrSichV), and transport regulations for hazardous goods. The necessary information is contained in the DIN Safety Data Sheet. Observe all identification information on the container label!

GISCODE: RE30

**Indication of VOC-content:**

(EG-Regulation 2004/42) Maximum Permissible Value 500 g/l (2010,II,j/lb): Ready-for-use product contains < 500 g/l VOC.



Please consider the latest version of this product information on our website.

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All stated information is based on our experience and technical preparation. We guarantee the correct and proper quality of our products. We do not assume any responsibility for the work not carried out by us, since we have no influence on the processing or processing conditions. We recommend on-site trials to be conducted in individual cases. With the publication of this new KLB product information, all prior information loses validity. The latest version is available electronically on our website [www.klb-koetzal.com](http://www.klb-koetzal.com). In addition, our "General Terms and Conditions" apply.