

KLB-SYSTEM EPOXID

EP 85 Fein

Ready-to-process, finely grained and stable 2-component epoxy resin mortar for concave moldings and repair work

Packaging units

Article no.	Packaging	Content (kg)	Units/pallet
AK8802-15	Bucket combo	15.00	30



Product characteristics

Mixing ratio parts by weight	A : B = 100 : 5.25
Processing time	10 °C / 50 °F : 75 min. 20 °C / 68 °F : 45 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 for mechanical load at 20 °C / 68 °F 7 days for chemical resistance at 20 °C / 68 °F
Further coatings	After 8 - 10 hours, but not longer than 48 hours at 20 °C / 68 °F
Consumption	Approx. 1.9 kg/m ² /mm Concave covings : Approx. 1.8 - 3.5 kg/running meter
Layer thickness	Starting at 0.5 mm
Shelf life	12 months (originally sealed)

Product description

KLB-SYSTEM EPOXID EP 85 Fein is a stable 2-component epoxy resin mortar especially for concave and triangular moldings. Furthermore, the material may be used for holes, surface defects and gaps as well as for levelling coats when there is need for a stable material. Also for subsequent coatings.

KLB-SYSTEM EPOXID EP 85 Fein is supplied as an easily workable, stable mortar compound in adjusted components. The product is characterised by a shrinkage-free, fast curing.

KLB-SYSTEM EPOXID EP 85 Fein can be drawn out to zero due to its fine-grained composition. This results in pore-free surfaces that are unproblematic to rework. The smooth, stable setting is particularly suitable for concave and triangular fillets. There is no need for time-consuming mixing on site.

KLB-SYSTEM EPOXID EP 85 Fein offers the advantage of a steady consistency and quality as a ready-to-use product. This makes it easy and quick to work with and allows uniformly appealing fillets to be modelled well.

Use **KLB-SYSTEM EPOXID EP 85 Fein** 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 flooring.

Area of application

- For producing concave and triangular moldings.
- Stable reactive resin mortar for repairing concrete and screed before coating work.

Product features

- Total Solid according to GISCODE (test method «Deutsche Bauchemie»)
- ready to use
- sealed surface
- ideal for repair works
- all-purpose use
- stable setting
- free of deleterious substances against varnish

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 ²	DIN EN 196/1
Compressive strength	75	N/mm ²	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 shotblasting and vacuum thoroughly.
- Prime with **EP 30**, **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". Sand off the base coat if needed.
- Apply coverings and accordingly or apply **EP 85 Fein**. Compact and smooth.
- Subsequent build-up of coats depend on the demands.

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/mm². 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. 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, remove with a lath or smoothing trowel, compact and smooth. In the case of fillets, spread the material sufficiently in the corner and pull it off and compact it with a suitable tool. Good compaction is necessary to achieve compressive strength. Tools can be intermediately cleaned with small amounts 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 and adhesion may be disrupted. The specified hardening times apply for 20 °C / 68 °F. Lower temperature may increase; higher temperature may decrease the curing and processing times. If working conditions are not complied with, the end product's technical properties may deviate from the description.

Cleaning

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

Storage

Store in dry and 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.

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.

CE marking

	
KLB Kötztal Lacke + Beschichtungen GmbH Günztalstraße 25 FRG-89335 Ichenhausen	
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EP85fein-V1-022013	
DIN EN 13813:2003-01	
Synthetic resin screed mortar DIN EN 13813: SR-B1.5-AR0.5-IR20	
Fire behaviour	E _f -s1
Emission of corrosive substances	SR
Wear resistance BCA	AR 0.5
Adhesive tensile strength	B 1.5
Impact resistance	IR 20



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

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. With appearance of this new KLB product information, all prior information loses validity. The updated version is available on our website www.klb-koetztal.com. In addition, our "General Terms and Conditions" apply.