KLB-SYSTEM EPOXID
EP 750 E

Glossy, pigmented 2-component epoxy resin emulsion sealer, low-emission according to AgBB

Packaging units

Article no.	Packaging	Content (kg)	Units/pallet
AK1701-10	Bucket combo	10.00	30
AK1701-25	Hobbock combo	25.00	12

Product characteristics

Mixing ratio parts by weight	A : B = 1 : 5
Mixing ratio parts by volume	A : B = 1 : 4
Processing time	15 °C / 59 °F : 60 min. 20 °C / 68 °F : 45 min. 30 °C / 86 °F : 30 min.
Processing temperature	Min. 15 °C / 59 °F - Max. 30 °C / 86 °F (room and floor temperature)
Curing time (accessibility)	15 °C / 59 °F : 24 - 36 hrs. 20 °C / 68 °F : 18 - 24 hrs. 30 °C / 86 °F : 14 - 18 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 18 - 24 hours, but not longer than 48 hours at 20 °C / 68 °F
Consumption	Approx. 0.200 - 0.250 kg/m² for each application
Layers	Usually 2 layers
Colours	From 10 kg quantity: RAL 7030, RAL 7032, RAL 7035 and RAL 7040. From 300 kg: colours upon request!
Shelf life	12 months (originally sealed) – **Protect from frost!**

Product description

KLB-SYSTEM EPOXID EP 750 E is a low-emission, water-emulsified, pigmented and glossy 2-component epoxy resin sealer.

Alternatively, the product can be used instead of **KLB-SYSTEM EPOXID EP 740 E**, but with a glossy surface.

KLB-SYSTEM EPOXID EP 750 E is an all-purpose sealer for concrete, cement screed, magnesia screed and mastic asphalt, as well as for reconstructing older surfaces because of its very good adhesion on different, even older substrates. To be applied with a velours roller, the material is easy to work with, has high coverage and is convenient and environmentally friendly due to its solvent-free properties. When applied in 2 layers, it results in a very durable and optically appealing floor sealer. The product hardens by drying and chemical cross-linking to form a a durable and tough coat with good adhesion.

KLB-SYSTEM EPOXID EP 750 E results in a hard, to a large extent abrasion-resistant coat that is physiologically harmless and has a good resistance to aqueous solutions, diluted acids, and alkalis, as well as moto and heating oil. The water

vapour permeability enables the sealing of water-sensitive and also excessively damp substrates.

KLB-SYSTEM EPOXID EP 750 E has been tested according to the AgBB standards at the LGA QualiTest GmbH in Nuremberg and has been classified as extremely low-emission and for recreation rooms.

Area of application

- **EP 750 E** is used as a sealer for concrete, cement, anhydrite, and mastic asphalt screeds, as well as magnesia screeds.
- As sealer on vapour-permeable coatings like **EP 785 HS**.
- As sealer and thin coat for interior areas, like lightly used commercial and industrial areas, basements, garages, storage rooms, etc.
- For renovation of older epoxy resin substrates after adequate preparation.

Product features

- Total Solid according to GISCODE
- glossy surface
- tested according to AgBB
- solvent-free
- environmentally friendly
- convenient processing
- odorless
- water vapour-diffusible
- very high adhesion
- very well covering
- all-purpose use

Technical data

Viscosity - Component A+B	800 - 1000	mPas	DIN EN ISO 3219 (23 °C / 73.4 °F)
Solid content	> 60	%	KLB method
Density - Component A+B	1.34	kg/l	DIN EN ISO 2811-2 (20 °C / 68 °F)
Abrasion (Taber Abraser)	< 70	mg	ASTM D4060 (CS10/1000)
Flashpoint	not flammable	-	DIN 51755
Gloss level	90 (85°)	-	DIN 67530
Diffusion resistance rate	3100	-	DIN EN ISO 12572
Diffusion equivalent air layer thickness Sd	(0.5 mm) 1.6	m	DIN EN ISO 7783-2

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

Suitable coatings

The following self-levelling coatings can be sealed with **EP 750 E**:

EP 200 VF, EP 202, EP 213, EP 213 RAPID, EP 216 Universal, EP 216 RAPID, EP 220, PU 405, PU 410, PU 420, PU 421, PU 425 Comfort.

With other coatings, adhesion must be tested. The adhesion can anyway be improved by grinding the surface.

Tests

External test certificates are available:

- Compliant with AgBB and suitable for recreation rooms.

Note:

Please ask for the tested system build-up!

Build-up of coats

- Grind the substrate and vacuum thoroughly.
- Absorbent and weak substrates require an additional base coat **EP 727 E**, consumption approx. 0.140 - 0.160 kg/m².
- Apply the first sealing coat **EP 750 E** with a velour roller, diluted with 5 % of water if **EP 727 E** hasn't been used as primer.
- Apply the second sealing coat **EP 750 E** with a velour roller using criss-cross strokes, consumption approx. 0.200 - 0.250 kg/m².

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. The substrates to be coated should be prepared mechanically. When sealing, abrasive grinding by means of diamond grinding is particularly suitable, as this achieves a smooth surface. The shot-blasting method can be used optimally, whereby a scratch coat is then applied for smoothing with **EP 50** and mixed sand **KLB-Mischsand 2/1**, mixing ratio 1.0 : 0.5 parts by weight. Old substrates must be cleaned before any mechanical preparation. If old synthetic resin surfaces need to be sealed, it must be ensured that sufficient adhesion is achieved. In case of doubt, we recommend testing on a trial surface.

Mixing

Combo-packaging will be supplied in the correctly measured mixing ratio. The package of Component B has sufficient volume for the entire packaging unit. Empty all of component A into the hardener compound B. Blend with a slow speed mixer (200 - 400 r/pm) for at least 2 - 3 minutes until a homogeneous, streak-free compound forms. If diluting with water, first mix components A and B completely, then add water and homogenise once again. The added water must be stirred in thoroughly. To prevent mixing errors, empty ("repot") the entire resin/ hardener mixture into a clean container and mix it once again briefly, to ensure complete homogenisation.

Processing time max. 45 minutes at 20 °C / 68 °F (see chart "Processing time").
Note: end of pot life is not visible!

Processing

As with all reactive resin systems, processing should take place immediately after mixing using a rubber blade (toothing 2 mm) or a lint-free velours sealing roller. Typically, work areas are divided up beforehand to avoid duplicate application and haphazard overlapping. For larger areas, it is recommended that 2 or more people carry out the application. One or more persons apply the material in one direction, while another person distributes the fresh sealing material in a crosswise motion (90° angle).

Use a 50 cm wide roller on larger surfaces for the final re-rolling. The distribution roller should be saturated/wetted with material and only be used for distribution, never for application. Always work "fresh-in-fresh" and ensure optimum distribution of the material. Avoid ponding, otherwise fogging may occur.

Floor and air temperature must not fall below 15 °C / 59 °F and humidity must not exceed 75 %. The recommended climatic conditions must also be maintained during curing or drying. 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 poblems and spotting to occur. Exposure to water should be avoided during the first 7 days. The specified curing times apply for 20 °C / 68 °F; temperatures below this require longer processing and curing times, while higher temperatures require shorter times. If working conditions are not complied with, the technical properties of the end product may deviate from those specified.

Cleaning

To remove fresh contamination and to clean tools, use water immediately. Hardened material can only be removed mechanically.

Separate cleaning and care recommendations are available for cleaning floors produced with KLB coatings and sealers. To ensure intercoat adhesion, water-based sealers may be grouted with KLB products after 7 days at the earliest (at 20 °C / 68 °F).

In special cases - especially with vibrant colours - the cleaning might cause a loss of colour. This can be avoided by applying an additional transparent sealing, e.g. **EP 705 E**. If necessary, ask for a consultancy.

Storage

Store in dry and frost-free conditions. Ideal storage temperature is between 10 - 20 °C / 50 - 68 °F. Bring to a suitable processing temperature before application. Tightly re-seal opened packages and use up 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: RE20

Indication of VOC-content:
(EG-Regulation 2004/42) Maximum Permissible Value 140 g/l (2010,II,j/wb): Ready-for-use product contains < 140 g/l VOC.

CE marking

CE

KLB Kötztal Lacke + Beschichtungen GmbH **Günztalstraße 25** **FRG-89335 Ichenhausen**
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EP750E-V1-022013
DIN EN 13813:2003-01
Synthetic resin screed mortar DIN EN 13813: SR-B1.5-AR0.5-IR5

Fire behaviour	E_{fl}-s1
Emission of corrosive substances	SR
Wear resistance BCA	AR 0.5
Adhesive tensile strength	B 1.5
Impact resistance	IR 5

VOC content

The product complies with the high requirements to low VOC contents, as required for sustainable construction. Therefore, these values exceed by far the European Union directive 2004/42/EG (decopaint directive).

	Limit value	Actual content	
Decopaint Directive 2004/42/EG - Component A	< 140	0	g/l
Decopaint Directive 2004/42/EG - Component B	< 140	0	g/l
DGNB - Components A + B	< 3	0	%
Klima:aktiv - Components A + B	< 3	0	%
LEED - Components A + B	< 100	0	g/l
Minergie ECO(R) - Components A + B	< 1 (< 2)	0	%

(According to the decopaint directive, single components are used for the calculation. For the quality rating systems for sustainable construction, the mixture of both components in the correct mixing ratio is the determining factor.)

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.