



# KLB-SYSTEM EPOXY EP 750 E

Pigmented 2-component Epoxy Resin Emulsion Sealer, glossy,  
low emission, according to AgBB



Mixing Ratio	Parts by weight	A : B	=	1 : 5
	Parts by volume	A : B	=	1 : 4
Processing Time	Temperature	15 °C / 59 °F	20 °C / 68 °F	30 °C / 86 °F
	Time	60 minutes	45 minutes	30 minutes
Processing Temperature		Min. 15 °C / 59 °F - Max. 30 °C / 86 °F (room- and floor-temperature)		
Curing Time (Accessibility)	Temperature	15 °C / 59 °F	20 °C / 68 °F	30 °C / 86 °F
	Time	24 - 36 hrs	18 - 24 hrs	14 - 18 hrs
Curing		2 - 3 days at 20 °C / 68 °F for mechanical load		
		7 days at 20 °C / 68 °F for chemical resistance		
Further Coatings		After 18 - 24 hours, but not longer than 48 hours at 20 °C / 68 °F		
Consumption		Approx. 0.2 - 0.3 kg/m <sup>2</sup> for each application		
Layers		Usually 2 coatings		
Dilution		With 5 % up to a max. of 10 % of water, only for prime coat		
Packaging		Combi-Bucket 10 kg, Combi-Hobbock 25 kg		
Colours		KLB-Standard colours – see chart. Other colours upon request!		
Shelf Life		12 months (originally sealed) – <b>Protect from frost!</b>		

## Usage and Properties

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

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

**KLB-SYSTEM EPOXY EP 750 E** is an all-purpose sealer for concrete, cement screed, magnesia screed and mastic asphalt, as well as for reconstructing older areas because of its very good adhesion on different, even older substrates. With a velour roller the material is easy to work with, has high coverage and due to its solvent-free properties it is convenient to work with and environmentally friendly. Applying two coats results in a very durable and optically appealing sealer. The product cures by drying and chemical cross-linking to a durable and sturdy coat with good adhesion.

**KLB-SYSTEM EPOXY EP 750 E** results in a hard and tough, to a large extent abrasion-resistant coat. Physiological harmless, good resistance to aqueous so-

lutions, diluted acids, and alkalis, as well as motor- and fuel-oil. Because of its water vapour permeability even water-sensitive and exaggerated moist substrates may be sealed.

**KLB-SYSTEM EPOXY EP 750 E** has been tested according to the AgBB testing standards at the LGA QualiTest GmbH in Nuremberg (FRG) and has been classified as extremely low-emission.

## Product Features

- glossy surface
- tested according to AgBB
- solvent-free
- environmentally friendly
- convenient application
- low odour
- water vapour permeability
- excellent adhesion
- very well covering
- all-purpose usage

## Testing

**EP 750 E** has been tested in combination with **EP 727 E** in regard to the VOC-emission according to the AgBB procedure (VOC = Volatile Organic Compounds). The testing has been carried out on the base of the principle accreditation for health evaluation of building products/ construction materials published by the German Institute for Structural Engineering (Deutsches Institut für Bautechnik DIBt). The requirements specified in the AgBB procedure are  $\leq 10 \text{ mg/m}^3$  after 3 days and  $\leq 1 \text{ mg/m}^3$  after 28 days. The LGA QualiTest GmbH in Nuremberg (FRG) has tested the coating system and determined clearly lower values than required by the AgBB procedure.

## Area of Application

- Use **EP 750 E** as sealer for concrete, screed, anhydrite and mastic asphalt, and magnesia coatings.
- As sealer on water vapour permeable coatings like e.g. **EP 785 HS**.
- Sealer and thin coatings for interior areas like commercial and industrial areas, basements, garage, stock rooms, and so on.
- Re-work old epoxy resin areas after surface preparation.

## Build-up of Coat

- Grind the substrate and vacuum thoroughly.
- Absorbent and weak substrates require an additional base coat **EP 727 E**, consumption approx.  $0.140 - 0.160 \text{ kg/m}^2$ .
- 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.  $0.200 - 0.250 \text{ kg/m}^2$ .

## Substrate

The substrate to be coated has to be levelled, dry, free of dust, has to have adequate tensile and compressive strength, and be free from weakly-bonded components or surfaces. Materials impairing adhesion, such as grease, oil and paint residues must be removed using suitable methods. Please refer to the advice issued by the trade associations, e.g. the current edition of BEB-worksheets KH-0/U and KH-0/S. The surface to be coated should be prepared mechanically. For a smooth surface diamond-grinding is especially suitable. When using the preferred shot-blasting method, a scratch coat using **EP 50 / KLB-Sand Blend 2/1** (1 : 0.5 parts by weight) is necessary.

Old substrates need to be cleaned thoroughly before preparing the floor mechanically. When sealing old synthetic resin surfaces test for adequate adhesion. Conduct a trial if in doubt.

## Mixing

Combi-trading units will be supplied in the correctly measured mixing ratio. Component B has sufficient volume for the entire trading unit. Decant component A into the hardener. Blend with a slow speed mixer (200 - 400 r/pm) for at least 2 - 3 minutes, for a material that is homogeneous and free of streaks. For adding water: first blend components A and B completely, then add water and homogenise once again. The added water needs to be stirred in thoroughly. To avoid mixing errors it is recommended to principally empty the resin/hardener mix into a clean container and mix briefly once again.

**Processing time: at 20 °C / 68 °F max. 45 minutes (see chart "Processing Time").**

**Note:** End of pot-life is not visible!

## Processing / Handling

Process the material immediately after mixing as with all other reactive resins. Apply with a lint-free velour roller. Divide working areas to avoid duplicate application and overlaps. For larger areas it is recommended that 2 or more people apply the material. One or more workers apply the material in one direction another person distributes the fresh material in a 90°-angle.

Use a 50 cm wide roller on larger areas. Roller should be coated with the material. Use only for distribution not for application. Always work "fresh-in-fresh" and watch for an even distribution. Avoid ponding otherwise blooming may occur.

Floor- and air-temperature must not fall below 15 °C / 59 °F and/or humidity must not exceed 75 %. The difference in floor- and room-temperature must be less than 3 °C / 37.4 °F so the curing will not be disturbed. If a dew-point situation occurs adhesion may malfunction, curing may be disturbed and spotting may occur. Avoid exposure to water within the first 7 days. Curing time applies to 20 °C / 68 °F. Lower temperature may increase, higher temperature may decrease the curing and processing time. If working conditions are not complied with, deviations in the described technical properties may occur in the end product.

## Cleaning

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

## Care and Maintenance of the sealed Coatings

For cleaning note the recommendations for care and maintenance. For the warranty of interlayer adhesion do not apply any KLB-Floor Care Products on aqueous sealers within the first 7 days (20 °C / 68 °F).

## Storage

Store in dry and at 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 subject to the hazardous material-, operational safety- and transport-regulations for hazardous goods. Refer to the DIN-Safety Data Sheet and the information on the labelled containers!

GISCODE: RE 1

## Technical Data\*

Viscosity	Components A + B	800 - 1000	mPas	DIN EN ISO 3219 (23 °C / 73.4 °F)
Solid Contents		> 60	%	KLB-Method
Flashpoint		Not flammable	-	DIN 51755
Density	Components A + B	1.34	kg/l	DIN EN ISO 2811-2 (20 °C / 68 °F)
Abrasion (Taber Abrasion)		< 70	mg	ASTM D4060
Diffusion Resistance Rate		3100	-	DIN EN ISO 12572
Diffusion Equivalent Air Layer sd (0.5) mm		1.6	-	DIN EN ISO 7783-2
Brightness (85°)		Approx. 90	-	DIN 67530

(\* Values achieved in sampling are average values. Variation in product specification is possible.)

## 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.

	
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EP750E-V1-022013	
<b>DIN EN 13813:2003-01</b>	
Synthetic resin screed mortar DIN EN 13813: SR-B1.5-AR0.5-IR5	
Fire behaviour	E <sub>fl</sub> -s1
Emission of corrosive substances	SR
Wear resistance BCA	AR 0.5
Adhesive tensile strength	B 1.5
Impact resistance	IR 5

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