

KLB-SYSTEM EPOXY EP 71 Filling Base Coat

2-component epoxy resin scratch coat, ready-to-use

Mixing ratio	Parts by weight	A : B = 6 : 1		
	Parts by volume	A : B = 100 : 30		
Processing time	Temperature	10 °C / 50 °F	20 °C / 68 °F	30 °C / 86 °F
	Time	45 minutes	25 minutes	15 minutes
Processing temperature		Minimum 10 °C / 50 °F – Maximum 30 °C / 86 °F (room- and floor-temperature)		
Curing time (Accessibility)	Temperature	10 °C / 50 °F	20 °C / 68 °F	30 °C / 86 °F
	Time	7 - 10 hrs.	5 - 6 hrs.	3 - 4 hrs.
Curing		1 - 2 days at 20 °C / 68 °F for mechanical load 7 days at 20 °C / 68 °F for chemical resistance		
Consumption		Approx. 0.6 - 1.3 kg/m ² , depending on the roughness of the substrate		
Addition of quartz sand		Fire-dried quartz sand (0.3 - 0.8 mm) for increased thickness of layers		
Packaging		Bucket-Combi 15 kg, Hobbock-Combi 30 kg		
Shelf life		12 months (originally sealed)		

Usage and Properties

KLB-SYSTEM EPOXY EP 71 Filling Base Coat is a 2-component epoxy resin filling material to achieve substrate which may be coated.

KLB-SYSTEM EPOXY EP 71 Filling Base Coat is a ready-to-use filling material. The aligned components offer a scratch-coat suitable consistency. The product is shrinkage-free and rapid-setting and is suitable for small areas.

Use **KLB-SYSTEM EPOXY EP 71 Filling Base Coat** on moisture consistent, dimension stable substrate like concrete and cement screed. The product features a very good compressive resistance and is suitable for all kinds of industrial and commercial flooring.

Product Features

- ready-to-use scratch filling material
- flexible, easy to work with consistency
- rapid-setting
- good adhesion

Area of Application

- Use as scratch coat for depth of roughness compensation.
- Economical solution for small areas.

Build-up of Coats

- Prepare the substrate mechanically, e.g. by shot blasting.
- Prime with the recommended KLB-Base Coats, like e.g. **KLB-SYSTEM EPOXY EP 30**, **KLB-SYSTEM EPOXY EP 50**, or **KLB-SYSTEM EPOXY EP 52 Special** using a rubber coating knife or roller.
- Apply a scratch coat with a steel or rubber squeegee or coating knife using **KLB-SYSTEM EPOXY EP 71 Filling Base Coat**.
- Scatter with fire-dried quartz sand, grain size 0.3 - 0.8 mm if the subsequent coating will be applied later than 48 hours.
- Apply subsequent coatings in regard to the technical requirements.

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. Suitable surfaces are concrete C20/25, cement screed CT-C35-F5 as well as other adequately sound surfaces. The substrate must have adequately high strength for the proposed occupational use. The coating of mastic asphalt with epoxy resin is not recommended. The surface to be coated should be prepared mechanically, preferably by shot-blasting. The surface strength must then be a minimum of 1.5 N/mm². For concrete, moisture content must not exceed 4.5 CM-%, remaining residual humidity. The possibility of moisture ingress from the rear must be permanently excluded. 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. Reconstruction of floors may require special procedures.

Mixing

Combi-trading units will be supplied in the correctly measured mixing ratio. Component A has sufficient volume for the entire trading unit. Decant the hardener B into the resin A. 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. To avoid mixing errors it is recommended to empty the resin/hardener-mixture into a clean container and mix briefly once again.

Processing / Handling

Apply an even layer immediately after mixing with a trowel, smoothing trowel, or rubber coating knife. Pull out with a trowel over-lapping, over the grain for a layer that is even, smooth, and free of scratches. The substrate has to be prepared and primed according to the requirements. The scratch coat needs to be scattered with sand if the subsequent coatings are carried out at a later point of time.

Floor- and air-temperature must not fall below 10 °C / 50 °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. Exposure to water and chemicals has to be avoided for 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 properties may occur in the end product.

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 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

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.

	
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EP71-V1-022013	
DIN EN 13813:2003-01	
Synthetic resin screed mortar DIN EN 13813: SR-B1.5-AR0.5-IR6	
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 6

Technical Data*

Viscosity	Components A + B	4000	mPas	DIN EN ISO 3219 (23 °C / 73.4 °F)
Solid contents		> 99	weight-%	KLB-Method
Density	Components A + B	1.70	kg/l	DIN EN ISO 2811-2 (20 °C / 68 °F)
Shore-hardness D		87	-	DIN 53505 (after 7 days)
Adhesive tensile strength		> 1.5	N/mm ²	DIN EN 1542

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

All stated information is based on our previous experience and composition. It is not possible to consider every single case. Please seek advice for your special cases. We guarantee the correct and proper quality of our products. We do not assume responsibility for the work not carried out by us since we have no influence on the processing or processing conditions. We recommend that on-site-trials will be conducted. Our "General Terms and Conditions" apply. With appearance of this new data sheet all prior information loses validity.



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to ISO 9001.