KLB KÖTZTAL
Lacke + Beschichtungen GmbH

KLB-SYSTEM EPOXID
EP 236

2-component epoxy resin roll coating with nubbed structure

Packaging units

Article no.	Packaging	Content (kg)	Units/pallet
AK1221-50	Bucket combo	10.00 kg	30
AK1221-20	Hobbock combo	20.00 kg	12

Product characteristics

Mixing ratio parts by weight	A : B = 6 : 1
Mixing ratio parts by volume	A : B = 100 : 30
Processing time	10 °C / 50 °F : 60 min. 20 °C / 68 °F : 40 min. 30 °C / 86 °F : 20 min.
Processing temperature	Minimum 10 °C / 50 °F (room and floor temperature)
Curing time (accessibility)	10 °C / 50 °F : 24 - 36 hrs. 20 °C / 68 °F : 18 - 24 hrs. 30 °C / 86 °F : 14 - 18 hrs.
Curing	2 - 3 days until mechanical load at 20 °C / 68 °F 7 days until chemical load at 20 °C / 68 °F
Consumption	Approx. 0.500 - 0.650 kg/m²
Packaging	Bucket combo 10 kg, Hobbock combo 20 kg
Colours	KLB standard colours – see chart. Other colours upon request!
Shelf life	12 months (originally sealed)

Product description

KLB-SYSTEM EPOXID EP 236 is a pigmented, thixotropic 2-component epoxy resin coating for thin structured coatings with burlings. The consistency is adjusted in a way that the surface can be easily laid with a textured roller. The consistency is adjusted in a way that the surface can be easily laid with a textured roller.

Apply the ready-to-use mixture with a toothed trowel A2 onto the substrate. Texture evenly with a structured roller. With this method of working, it is possible to reach high levels of ground coverage. The product is suitable for coating floor and wall surfaces.

KLB-SYSTEM EPOXID EP 236 results in an optically pleasant wall and floor coating with a structured, glossy and imporous surface. The coating is resistant to abrasion and to light mechanical load. By adding 10 - 15 % of silicium carbide, the abrasion and slip resistance can be considerably increased.

The coating offers good resistance to chemicals, especially to aqueous saline solutions, acids and alkaline as well as to oil and benzin. Conditional resistance is given to diluted organic acids. **KLB-SYSTEM EPOXID EP 236** shows good colour tone stability, but like all other epoxy resins, it is not resistant to yellowing.

Area of application

- For textured, plain-coloured thin coatings and surfaces free of pores.

- For factory, storage, and work areas with light mechanical load.
- Suitable for wall and floor coatings.

Product features

- rapid installation
- Total Solid according to GISCODE (Test method "Deutsche Bauchemie")
- surfaces with burling structure
- also suitable for vertical surfaces
- good resistance to water and chemicals
- very economical
- resistant to abrasion and wear

Technical data

Viscosity - Component A+B	thixotropic	-	
Density - Component A+B	1.60	kg/l	DIN EN ISO 2811-2 (20 °C / 68 °F)
Weight loss	< 1.0	weight-%	after 28 days
Water absorption	< 0.2	weight-%	DIN 53495
Flexural strength	45	N/mm²	DIN EN 196/1
Compressive strength	63	N/mm²	DIN EN 196/1
Shore-hardness D	80	-	DIN 53505 (after 7 days)
Abrasion (Taber Abraser)	50	mg	ASTM D4060 (CS10/1000)

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

Included in systems

- System A8 - KLB INDUSTRIAL EP Structured

Please visit our website to get more information about our KLB systems: www.klb-koetztal.com

Tests

The following external test certificates are available:

- Classification of the fire behaviour according DIN EN 13501-01:2019-05: B_{fl}-s1.
- Ease of decontamination according DIN 25415-1: excellent.
- Product is compliant with DIN EN 13813: 2003-01.

Note:

Please ask for the tested system build-up!

Build-up of coats

- Prime with one of the recommended KLB base coats, like **EP 50, EP 51 RAPID S, EP 52 Spezialgrund,** or **EP 52 RAPID**, consumption approx. 0.3 - 0.4 kg/m², depending on the substrate.
- Apply a pigmented scratch coat for an even substrate, e.g. with **EP 99, EP 50, EP 51 RAPID S** and mixed sand **KLB-Mischsand 2/1.** Mixing ratio approx. 1 : 0.8 parts by weight, consumption approx. 1,0 kg/m². For an even colour tone, it is recommended to add 5 - 10 % of pigments into the uncoloured resin in the colour tone of the coating.
- Apply the coating **EP 236** with a toothed trowel (**Toothed blade A2**), consumption approx. 0.500 to 0.650 kg/m² and structure evenly with a medium-pored texture roller in a crosswise motion.

- Add 10 - 15 % silicium carbide, grain size 0.3/0.8 mm for areas with increased slip and wear resistance. Consumption of the mixture approx. 0.750 - 0.850 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 as well as the notes provided in the product information for the recommended base coats, like **EP 50, EP 51 RAPID S,** and **EP 52 Spezialgrund.** 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. The possibility of moisture ingress from the rear must be permanently excluded. The prepared area must be saturated, pore-free and primed carefully. It is often difficult to judge the necessary pore-free condition of substrates. It is therefore recommended that a scratch coat be applied to smooth the surface. If the substrate has not been primed to be pore-free, bubbles and pores can develop in the coating due to air rising from the substrate. 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 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. To prevent mixing errors, empty ("repot") the resin/hardener mixture into a clean container and mix it once again briefly to ensure complete homogenisation.

Processing

Apply the fresh material partially onto the surface, then distribute it evenly with the toothed trowel A2. Watch for an even application. Always work “fresh-in-fresh”. For structuring, use a medium-pored texture roller in a crosswise motion. Run the roller over the surface several times with even pressure until the desired uniform structure is achieved. The surface can be entered with edgeless nail shoes. The amount of material applied must be carefully measured out. Roller marks may show when too much material has been applied. Do not use the structured roller for application.

Floor and air temperature must not fall below 10 °C / 50 °F and humidity must 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 and spotting to occur. Exposure to water should be avoided during the first 7 days. The specified hardening 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 **VR 24** or **VR 33** immediately. Hardened material can only be removed mechanically.

Separate cleaning and care recommendations are available for cleaning floors produced with KLB coatings and sealers.

Storage

Store in dry and if possible, at 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: RE90

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

CE

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EP236-V1-122025

DIN EN 13813:2003-01

Synthetic resin screed mortar
DIN EN 13813: SR-B2,0-AR0,5-IR7

Fire behaviour	B_{fl}-s1
Emission of corrosive substances	SR
Wear resistance BCA	AR 0,5
Adhesive tensile strength	B 2,0
Impact resistance	IR 7

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 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-koetztal.com. In addition, our "General Terms and Conditions“ apply.

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