KLB-SYSTEM EPOXID
EP 782 E Spachtelgrund

Low-emission, water-emulsified, vapour-permeable 2-component epoxy resin filling base coat

Packaging units

Article no.	Packaging	Content (kg)	Units/pallet
AK2761-10	Bucket combo	10.00	30
AK2761-30	Hobbock combo	30.00	12

Product characteristics

Mixing ratio parts by weight	A : B = 1 : 3
Mixing ratio parts by volume	A : B = 1 : 2.8
Processing time	15 °C / 59 °F : 35 min. 20 °C / 68 °F : 20 min. 30 °C / 86 °F : 15 min.
Processing temperature	Minimum 15 °C / 59 °F (room and floor temperature)
Curing time (accessibility)	15 °C / 59 °F : 30 hrs. 20 °C / 68 °F : 18 hrs. 30 °C / 86 °F : 12 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	0.6 - 1.0 kg/m² for each layer, up to 1.5 kg/m² possible (dependent on depth of roughness)
Layers	1 layer after EP 727 E base coat application
Addition of quartz sand	Addition of 20 % of quartz sand (0.3/0.8 mm) for higher layers
Colours	Grey-beige
Shelf life	12 months (originally sealed) – **Protect from frost!**

Product description

KLB-SYSTEM EPOXID EP 782 E Spachtelgrund is a 2-component, water-emulsified epoxy resin used on substrate prior to coating work for levelling and sealing. Due to its special formula, the product is water vapour-permeable and therefore suitable for anhydrite and magnesia screed, or other substrate sensitive to moisture. Especially suitable underneath the vapour-permeable coatings **KLB-SYSTEM EPOXID EP 785 HS** and **KLB-SYSTEM EPOXID EP 785 EL+**.

The product is adjusted smooth and thixotropic and offers good application properties as well as a pore-overarching consistency. **KLB-SYSTEM EPOXID EP 782 E Spachtelgrund** features a high solid content. Due to its water-based formula, it is convenient to work with and environmentally friendly. Process with a scraper.

KLB-SYSTEM EPOXID EP 782 E Spachtelgrund cures rapidly and offers good drying properties. Very good adhesion on different substrate like concrete, cement, magnesia and similar screed, as well as on old synthetic resin coatings. **KLB-SYSTEM EPOXID EP 782 E Spachtelgrund** turns into a hard film which is physiologically harmless.

KLB-SYSTEM EPOXID EP 782 E Spachtelgrund is certified according to the “Indoor Air Comfort Gold” and meet the requirements for a sustainable construction certification according to DGNB (Germany), LEED (United States) or BREEAM (Great Britain). “Indoor Comfort Gold” fulfills the highest requirements in regards to the emission of Volatile Organic Compounds and respects not only the German limits of AgBB or ABG, but also of the emissions regulations of many other European Countries.

The cured product is resistant to water, aqueous salt solutions, diluted acids and bases. Short term resistance to solvents. The water vapour permeability enables the coating of water-sensitive and also excessively moist substrates.

Area of application

- Base and levelling coat before the water vapour-permeable coating **EP 785 HS**.
- Use on magnesia and anhydrite screed.
- Suitable coating on “waterproof” substrate with high residual moisture content.

Product features

- ready to use
- odorless
- tested, low-emission quality
- environmentally friendly
- free of deleterious substances against varnish
- Total Solid according to GISCODE
- very high adhesion
- higher thicknesses possible
- good drying properties
- water vapour-diffusible

Technical data

Viscosity - Component A+B	4500	mPas	DIN EN ISO 3219 (23 °C / 73.4 °F)
Solid content	> 75	%	KLB method
Density - Component A+B	1.56	kg/l	DIN EN ISO 2811-2 (20 °C / 68 °F)
Compressive strength	> 50	N/mm²	DIN EN 196/1
Adhesive tensile strength	> 1.5	N/mm²	DIN EN 1542
Shore-hardness D	80	-	DIN 53505 (after 7 days)
Flashpoint	Not flammable	-	DIN 51755
Diffusion resistance rate	2100	-	DIN EN ISO 12572
Diffusion equivalent air layer thickness Sd	(1 mm) 2.1	m	DIN EN ISO 7783-2

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

Included in systems

- System E2 KLB INDUSTRIAL DIFFUSION LOW-VOC EP Standard
- System E3 KLB INDUSTRIAL DIFFUSION LOW-VOC EP RX
- System F9 KLB CONDUCTIVE DIFFUSION LOW-VOC EP EX

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

Tests

External test certificates are available:

- Certified low-emission according to “Eurofins Indoor Air Comfort Gold”. Compliant with AgBB for recreation rooms.
- Classification of the fire behaviour in combination with **EP 785 HS** according to DIN EN 13501-01:2010-01: B_{fl}-s1.

Note:

Please ask for the tested system build-up!

Build-up of coats

- Shot-blast the substrate and vacuum thoroughly.
- Base coat application with **EP 727 E**, consumption approx. 0.140 - 0.160 kg/m².
- Scratch coat application with **EP 782 E Spachtelgrund**, consumption approx. 0.6 - 1.0 kg/m². In the case of highly porous and rough substrates, a further trowel coat may have to be applied.
- Application of **EP 785 HS** or a conductive coating layer with **EP 799 Ableitgrund** and **EP 785 EL+**.

Substrate

The substrate to be coated must be even, surface 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, preferably by shot-blasting. The prepared area must be primed carefully. Consider the notes provided by the product informations of **EP 727 E**. It is often difficult to judge the necessary pore-free condition of substrates. It is therefore recommended that the primer **EP 727 E** and subsequent layer coat with **EP 782 E Spachtelgrund** be applied. 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. Due to the good intercoat adhesion, quartz sand scattering is not necessary if the recommended intermediate drying times are observed. Old substrates must be cleaned intensively before any mechanical preparation. 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 and whitish emulsion forms. To prevent mixing errors, empty ("repot") the entire resin/ hardener mixture into a clean container and mix it once again briefly. Partial quantities need to be weighed out in the right mixing ratio after having stirred up the single components. Add fire-dried quartz sand 0.3/0.8 mm up to 20 % after mixing the components.

The processing time must not exceed 20 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. To smooth the substrate as well as to completely close the pores, apply a filler coat of **EP 782 E Spachtelgrund** before applying a coating. This can be applied with a trowel or rubber squeegee. Adjust the amount of material to the substrate, never apply too sharply, otherwise the substrate pores will not be closed. If there are

larger roughness depths, quartz sand 0.3/0.8 mm up to 20 % can be added to achieve a closed surface or, if necessary, the filling can be repeated.

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 and chemicals 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 clean fresh contamination and tools, use water immediately. Use thinner **VR 24** if necessary. 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 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

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EP782E-V1-022013
DIN EN 13813:2003-01
Synthetic resin screed mortar DIN EN 13813: SR-B1.5-NPD-NPD

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

NPD = No Performance Determined

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	1,6	g/l
Decopaint Directive 2004/42/EG - Component B	< 140	0	g/l
DGNB - Components A + B	< 3	0,03	%
Klima:aktiv - Components A + B	< 3	0,03	%
LEED - Components A + B	< 100	0,4	g/l
Minergie ECO(R) - Components A + B	< 1 (< 2)	0,03	%

(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.

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