

KLB-SYSTEM POLYURETHAN PU 806 E



Low-emission, environmentally friendly, pigmented and light-stable 2-component polyurethane matt sealer, tested and certified according to AgBB

Packaging units

Article no.	Packaging	Content (kg)	Units/pallet
AK6514-10	Combo packaging	5.00 kg	90
AK6514-40	Combo packaging	10.00 kg	60



Product characteristics

Mixing ratio parts by weight	A : B = 100 : 13.6		
Mixing ratio parts by volume	A : B = 100 : 12,4		
Maturing time	After mixing, wait at least 10 minutes, then blend once again for 1 minute (we urgently recommend complying to this)		
Processing time	10 °C / 50 °F : 180 min. 20 °C / 68 °F : 120 min. 30 °C / 86 °F : 50 min.		
Processing temperature	Minimum 10 °C / 50 °F (room and floor temperature)		
Curing time (accessibility)	10 °C / 50 °F : 14 - 18 hrs. 20 °C / 68 °F : 12 - 14 hrs. 30 °C / 86 °F : 8 - 12 hrs.		
Curing	After 2 - 3 hours dust-dry at 20 °C / 68 °F 2 - 3 days until mechanical load at 20 °C / 68 °F 7 days until chemical load at 20 °C / 68 °F		
Further coatings	After 12 - 18 hours, but after 48 hours at the latest at 20 °C / 68 °F		
Consumption	Approx. 0.140 - 0.180 kg/m ²		
Layers	On coatings of the same colour, one application is usual; for critical colours or colour changes, 2 - 3 applications are necessary!		
Colours	Standard colours according to KLB colour chart, other colours available upon request!		
Shelf life	12 months (originally sealed) – Protect from frost!		

Product description

KLB-SYSTEM POLYURETHAN PU 806 E is a high-quality, coloured 2-component polyurethane resin sealer for matt sealing of epoxy or polyurethane resin coatings.

KLB-SYSTEM POLYURETHAN PU 806 E is based on a new environmentally friendly technology. The product is an excellent alternative to solvent-based sealers and can replace them in many aspects.

The sealing results in uniform, matt surfaces that give the floors an even, nice appearance. "Mirror effects" of glossy coatings due to light scattering from the surface are significantly reduced so that the product's main area of application is primarily to be seen in visually more demanding surfaces.

KLB-SYSTEM POLYURETHAN PU 806 E cures by drying and chemical crosslinking to form durable, robust films - additionally being tough, abrasion-resistant, light-stable with low soiling tendency and good cleanability.



	 PU 806 E has a good resistance to aqueous solutions, diluted alkalis and bases as well as to motor and heating oil. Furthermore, it is characterised by a low tendency to stain against household chemicals or strongly staining food and beverages such as beer, red wine or cola. Thanks to its water vapour permeability, it can also be used as top sealer for diffusible coatings such as EP 785 HS. PU 806 E has good adhesion to various substrates and can therefore also be used - after laying trial surfaces and checking of the interlayer adhesion - on old epoxy or polyurethane resin coatings. Alternatively, the sealants belonging to the same product family such as PU 806 E - Wall (increased opacity for wall coatings) and PU 806 E - R10 (slip resistance grade R10) can be used. The sealer is certified according to the "Indoor Air Comfort Gold" and meets the requirements for a sustainable building certification according to DGNB, LEED or BREEAM. The "Indoor Air Comfort" product certification sets the highest requirements for the emission of volatile organic compounds and meets not only the German requirements of AgBB or ABG, but also the emissions regulations of many other European countries. Note: sealed surfaces offer only limited resistance to mechanical load. Material handling equipment may affect or destroy them Their use is therefore only suitable to a limited extent. In areas with high or frequent wet exposure and also with chemicals, solvent-based sealers would be more appropriate.
Area of application	 PU 806 E is used as a coloured matt sealer on high-quality epoxy and polyurethane resin coatings for interior areas with special demands on the visual appearance. Decorative commercial areas like showrooms, exhibition areas, shops, offices, etc. but also as finish sealer on decorative Terrazzo floorings. Usually suitable for floors without or with little traffic of industrial trucks. Suitable as finish for high-quality, light-stable and elastic PU 410 decorative coatings in interior areas. As matt sealer on vapour-permeable coatings like EP 785 HS. For sealing and reworking older epoxy and polyurethane resin surfaces after adequate testing and preparation. Use as finish for tempered cement coatings or grinded concrete surfaces after surface preparation and application of the primer EP 727 E (trial surfaces are urgently recommended). Use as matt sealer for wall coatings made of PU 662. Alternatively, use PU 806 E - Wall. Note the product information!
Product features	 decorative, appealing surface matt tested, low-emission quality Total Solid according to GISCODE environmentally friendly odorless good processing properties water vapour-permeable very high adhesion resistant to abrasion and wear even surface

Product Information PU 806 E



Technical data

Viscosity - Component A+B	Approx. 250 - 400	mPas	DIN EN ISO 3219 (23 °C / 73.4 °F)
Solid content	> 40	%	KLB method
Density - Component A+B	1.15	kg/l	DIN EN ISO 2811-2 (20 °C / 68 °F)
Abrasion (Taber Abraser)	< 13	mg	ASTM D4060
Flashpoint	Non combustible	-	DIN 51755
Gloss level	25 (85°)	-	DIN 67530
Diffusion resistance rate	7500	-	DIN EN ISO 12572
Diffusion equivalent air layer thickness Sd	0.75 (0.1 mm)	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 G3 - KLB INDUSTRIAL LOW-VOC PU Comfort Sealed System G4 - KLB INDUSTRIAL LOW-VOC PU Elastic Sealed System G8 - KLB DECOR LOW-VOC PU Comfort Silent Please visit our website to get more information about our KLB systems: www.klb-koetztal.com
Suitable coatings	The following self-levelling coatings can be sealed with PU 806 E: EP 200 VF, EP 202, EP 202 Clean, 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: Slip-resistance grade R11 in combination with RHX 75 possible, according to DIN 51130 and BGR 181. Suitable for use in foodstuffs according to § 31 para. 1, German Food and Feed Code (german law LFGB). Certified as low-emission according to Eurofins "Indoor Air Comfort Gold". Compliant with AgBB for recreation rooms. Note: Please ask for the tested system build-up!
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 trade associations, e.g. the most recent versions of BEB worksheets KH-0/U, KH-0/S and KH-2. The sealer is typically applied as the last layer when creating a floor covering. It is therefore necessary to ensure that the previous layer is not already soiled. The optimum time for sealing is reached when the previously applied epoxy resin layer has hardened to a sufficiently stable film, but is not yet cured completely. In standard systems, this is the case after 18 hours at the earliest and after 72 hours at the latest at 20 °C / 68 °F air and soil temperature. If sealers are applied later, a trial surface must be applied and tested to check that sufficient adhesion is achieved.



Old surfaces must be cleaned and mechanically prepared if necessary. If old synthetic resin substrates are being sealed, it is necessary to check that sufficient adhesion is achieved. If in doubt, we recommend processing a sample area.

Mixing	Combo-packaging will be supplied in the correctly measured mixing ratio. Before use, bring component A to processing temperature and shake well, then empty the contents into a clean, oval bucket. Empty all of the hardener compound B and mix immediately. 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 entire resin/hardener mixture into a clean container and mix it once again briefly.		
Maturing time	Important to improve results: wait at least 10 minutes (for pre-reaction), then blend once again.		
	To obtain optimum technical properties, PU 806 E must be mixed 10 minutes before processing. Mix again briefly to ensure complete homogenisation, then process.		
	Processing time max. 2 hours 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 1mm) or a lint-free velours roller. Typically, work areas are divided up beforehand to avoid duplicate application and haphazard overlapping. Otherwise, an uneven surface appearance and streaking might appear. 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 10 °C / 50 °F and humidity should not exceed 75 %. The recommended climate conditions must be maintained during curing and 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 dewpoint situation arises, regular drying and cross-linking will not be possible, with hardening problems and spotting to occur. Exposure to water and chemicals should be avoided during the first 7 days. The specified hardening times apply for 20 °C / 68 °F. Lower temperature may increase; higher temperature may decrease the curing and processing times. If working conditions are not complied with, the technical properties of the end product may deviate from those specified.		
	Special remarks: coloured products should always belong to the same batch and be used on the same surface, as slight colour deviations in different batches cannot be excluded due to the raw material. The batch number is indicated on the container labels. For certain colour shades - especially white, yellow and orange or pastel light shades - the recommended layer thicknesses must be observed to ensure opacity. The top sealer must always be applied in the same colour as the underlying coating. For other colour tone combinations, please consult us.		
	To prevent wear and tear, suitable chair castors or floor protection mats must be used with swivel chairs/office swivel chairs or other wheeled furniture.		
	Long or improper storage can lead to film formation inside the bucket. In this case, we recommend sieving the sealer. The bucket sieve KLB-Eimersieb 15L (Art. N. WZ7050-01) is ideal for this purpose, as it enables quick sieving and thus a good sealing result.		



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 the sealed floor surfaces. To ensure intercoat adhesion, water-based sealers may be grouted with KLB products after 7 days at the earliest (at 20 °C / 68 °F).		
	<u>Note:</u> 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. PU 805 E . The products of the "Clean" range must not be sealed transparently. 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! PU 806 E Clean: please use biocide products carefully. Before using our producs, always read the label and product information.		
	GISCODE: PU10		
	Indication of VOC-content:		

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

CE		
KLB Kötztal Lacke + Beschichtungen GmbH		
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15		
PU806E/PU806EClean-V2-062015		
DIN EN 13813:2003-01		
Synthetic resin screed mortar DIN EN 13813: SR-B1.5-AR0.5-IR16		
Fire behaviour	B _{fl} -s1	
Emission of corrosive substances	SR	
Wear resistance BCA	AR 0.5	
Adhesive tensile strength	B 1.5	
Impact resistance	IR 16	

CE marking

Product Information PU 806 E



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	10,8	g/l
Decopaint Directive 2004/42/EG - Component B	< 140	0	g/l
DGNB - Components A + B	< 0,5	PU10, Eurofins-tested	
Klima:aktiv - Components A + B	< 3	0.8	%
LEED - Components A + B	< 100	9.8	g/l
Minergie ECO ® - Components A + B	< 1 (< 2)	0.8	%

(According to the Decopaint directive, single components are used for calculation. In the sustainable building rating systems, 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 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 <u>www.klb-koetztal.com</u>. In addition, our "General Terms and Conditions" apply.



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