

# KLB-SYSTEM POLYURETHAN

## PU 8350

Solvent-based, deeply penetrating 1-component polyurethane impregnation for concrete protection, especially in the case of acid attack in driving silos

### Packaging units

Article no.	Packaging	Content (kg)	Units/pallet
PU6899-50	Bucket	10.00	45



### Product characteristics

Mixing ratio parts by weight	Ready-to-use!
Processing time	No pot life!
Processing temperature	Minimum 10 °C / 50 °F (room and floor temperature)
Curing time (accessibility)	18 - 24 hours at 20 °C / 68 °F
Curing	2 - 3 days until mechanical load at 20 °C / 68 °F 7 days until chemical load at 20 °C / 68 °F
Further coatings	After 8 - 24 hours, but after 48 hours at the latest
Consumption	Impregnation: 0.4 - 0.8 kg/m <sup>2</sup> in 2 layers depending on the absorbency
Colours	Yellowish transparent
Shelf life	6 months (originally sealed)

### Product description

**KLB-SYSTEM POLYURETHAN PU 8350** is a transparent, moisture-curing 1-component polyurethane binding agent for impregnation and surface solidification of concrete and cement substrates.

**KLB-SYSTEM POLYURETHAN PU 8350** is applied by saturating with a solvent-resistant short-floor roller. The application quantity depends on the condition of the substrate. A total quantity of 0.6 to 0.8 kg/m<sup>2</sup> should be applied in 2 to 3 working steps until the surface is saturated. Ensure good ventilation until use after approx. 3 to 5 days.

**KLB-SYSTEM POLYURETHAN PU 8350** cures to a transparent, durable and very robust film. The product results in a glossy surface; yellowing, however, may occur.

The cured product has a good resistance to many chemicals, in particular to water, saline solutions, diluted bases. The hardened film is resistant to organic acids. Therefore, the product is preferably used for concrete protection in agriculture, especially for impregnation of silo systems as well as on slatted floors.

The product complies with the provisions of Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and items intended to come into contact with foodstuffs and the law on the circulation of foodstuffs, tobacco products, cosmetics and other consumer goods.

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#### Area of application

- In the agricultural sector for protecting concrete substrates with silage application.
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#### Product features

- ready-to-use
  - resistant to chemicals and acids
  - extended processing time
  - strengthening
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#### Technical data

Viscosity	23	mPas	DIN EN ISO 3219 (23 °C / 73.4 °F)
Solid content	> 40	%	KLB method
Density	0.98	kg/l	DIN EN ISO 2811-2 (20 °C / 68 °F)
Flashpoint	29 °C / 84.2	°F	DIN 51755

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

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#### Tests

External test certificates are available:

- Classification of the fire behaviour according to DIN EN 13501-01:2010-01: B<sub>fl</sub>-s1.

**Note:**

Please ask for the tested system build-up!

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#### 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. The substrates to be coated should be prepared mechanically, preferably by shot-blasting. The surface strength must then be at least 1.5 N/mm<sup>2</sup>. For concrete, moisture content must not exceed 4.5 CM-%, remaining residual humidity.

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#### Processing

Apply the stirred material to the substrate with a lint-free short-floor roller in an even layer thickness. The consumption per layer depends on the absorbency of the substrate and should be 0.2 to 0.3 kg/m<sup>2</sup>. The surface should be fully saturated after 2 coats; if necessary, apply another layer. Excessive layer thicknesses lead to foaming. Always work in crosswise motion to ensure a full-surface application.

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#### Cleaning

To remove fresh contamination and to clean tools, use thinner **VR 28** or **VR 33** immediately. Hardened material can only be removed mechanically.

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#### Storage

Store in dry and 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.

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### 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: PU50

### Indication of VOC-content:

(EG-Regulation 2004/42) Maximum Permissible Value 500 g/l (2010,II,I/II): Ready-for-use product contains < 500 g/l VOC.

### CE marking

			
1119		KLB Kötztal Lacke + Beschichtungen GmbH Günztalstraße 25 FRG-89335 Ichenhausen	
14		14	
PU8350-V2-062014		PU8350-V2-062014	
DIN EN 1504-2:2004		DIN EN 13813:2003-01	
Surface Protection Products - Impregnation DIN EN 1504-2: ZA.1b,ZA.1c,ZA.1g		Synthetic resin screed mortar DIN EN 13813: SR-B1.5-AR0.5-IR4	
Abrasion resistance	complied with	Fire behaviour	B <sub>1</sub> -s1
Penetration depth	Class I	Emission of corrosive substances	SR
Drying rate	Class I	Wear resistance BCA	AR 0.5
Capillary water absorbtion and water permeability	< 0.1 kg/m <sup>2</sup> *h0.5	Adhesive tensile strength	B 1.5
Resistance to increased chemical excavation	complied with	Impact resistance	IR 4
Resistance to impact	Class I		
Tear-test for adhesive strength evaluation	> 1.5 Nmm <sup>2</sup>		
Fire behaviour	B <sub>1</sub> -s1		



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-koetzal.com](http://www.klb-koetzal.com). In addition, our "General Terms and Conditions" apply.