

# KLB-SYSTEM POLYURETHAN

## PU 68 Rapid U

Rapid-setting 2-component polyurethane binding agent and primer for concrete and other substrates. Suitable for repair works and as bonding bridge for the renovation of concrete joints

### Packaging units

Article no.	Packaging	Content (kg)	Units/pallet
AK6156-95	Bucket combo	1.00	240



### Product characteristics

Mixing ratio parts by weight	A : B = 100 : 75
Processing time	10 °C / 50 °F : 25 - 30 min. 20 °C / 68 °F : 10 - 15 min. 30 °C / 86 °F : 5 - 8 min.
Processing temperature	Minimum 5 °C / 41 °F (room and floor temperature)
Curing time (accessibility)	10 °C / 50 °F : 90 - 120 min. 20 °C / 68 °F : 60 - 90 min. 30 °C / 86 °F : 30 - 45 min.
Curing	After approx. 1 hour dry at 20 °C / 68 °F 4 - 8 hours until mechanical load at 20 °C / 68 °F 10 - 15 hours until chemical load at 20 °C / 68 °F
Further coatings	After approx. 1 hour, but after 8 hours at the latest at 20 °C / 68 °F
Consumption	Base coat: 0.3 - 0.6 kg/m <sup>2</sup>
Shelf life	12 months (originally sealed) - <b>Protect from frost!</b>

### Product description

Reactive, solvent-free 2-component polyurethane priming and mortar resin for fast repair and renovation of concrete and other mineral substrates. In combination with **KLB-SYSTEM POLYURETHAN PU 466**, the product is used in joint refurbishment.

Advantageous is its very fast curing. Surfaces primed with **KLB-SYSTEM POLYURETHAN PU 68 Rapid U** can be further processed/coated after approx. 1 hour.

As a binder, it is suitable in combination with mixed sand **KLB-Mischsand 1** for the production of repair mortars which are used for reprofiling, e.g. of substrate break-outs or joints that are subsequently filled with **KLB-SYSTEM POLYURETHAN PU 466**. The fast curing thus makes the renovation of joints possible within one day.

**KLB-SYSTEM POLYURETHAN PU 68 Rapid U** cures fast and has a good cross-linking. The primer has very good adhesion and chemical resistance.

### Area of application

- Use as primer before the grouting of the elastic joint compound **KLB-SYSTEM POLYURETHAN PU 466**, for movement and expansion as well as block joints between accessible concrete slabs in storage and industrial facilities.

- For priming concrete and other mineral substrates.
- Producing rapid-setting reprofiling mortars for the repair of chipping and reprofiling in joint rehabilitation.
- Before grouting with **KLB-SYSTEM POLYURETHAN PU 466** onto cracks and joints that need to be filled flexibly.

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#### Product features

- solvent-free
- short reaction time
- quickly reworkable
- very high adhesion
- resistant to water and chemicals

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#### Technical data

Viscosity - Component A+B	Approx. 1900	mPas	DIN EN ISO 3219 (23 °C / 73.4 °F)
Solid content	> 99.8	%	KLB method
Density - Component A+B	Approx. 1.10	kg/l	DIN EN ISO 2811-2 (20 °C / 68 °F)
Shore-hardness D	Ca. 75	-	DIN 53505 (after 7 days)

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

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#### Substrate

The substrate to be filled must be dry, free of dust, sufficiently resistant to tension and compression as well as be free from weakly-bonded components. Materials impairing adhesion such as grease, oil, paint residues, cement or other weakly-bonded or loose parts should be removed beforehand with suitable measures.

Prepare joint edges mechanically, if necessary by chiseling or cutting and made dust-free. The broken surface is primed and, when required, reprofiled with mortar for the subsequent elastic block joint. When renovating cracks, open them conically and vacuum them out. Observe the information issued by the trade associations, e.g. the most recent versions of BEB worksheets KH-0/U and KH-0/S.

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#### 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 1 - 2 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.

##### Producing mortars:

1 kg **PU 68 Rapid U**  
8 - 10 kg mixed sand **KLB-Mischsand 1**

Before adding any additives, the binding agent must be premixed, only then is added the supplement. The amount of mixed sand is added according to the desired consistency and strength. Instead of mixed sand **KLB-Mischsand 1**, a mixture of one part by weight each of fire-dried quartz sand with a grain size of 0.1/0.3 mm and 0.3/0.8 mm can alternatively be used.

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#### Processing

##### Primer:

Process the material with a velours roller in an evenly sealed coat on the substrate. Avoid puddles. If the recoating window (8 hours) is exceeded or if subsequent recoating with repair mortar is to be carried out, sand the primer loosely and openly with quartz sand 0.7/1.2 mm. Note: to improve adhesion, approx. 5 - 10% of thinner **VR 28** can be added to **PU 68 Rapid U** for low-absorbent substrates.

**Repair mortar:**

The mortar can be applied on the wet primer, or also on a sanded, dry primer. For this purpose, the freshly mixed mortar is immediately spread on the repair surface, smoothed and compacted. Always apply connections fresh in fresh. Floor and air temperature must not fall below 5 °C / 41 °F and humidity should not exceed 75 %. The material to be processed must be at room temperature during processing. 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 and adhesion may be disrupted with cross-linking disorders and spotting to occur. Exposure to water should be avoided during the first 24 hours. The specified hardening times apply for 20 °C / 68 °F. Lower temperature and humidities of under 40% may increase; higher temperature and humidities of over 70% may decrease the curing and processing times. If working conditions are not complied with, the end product's technical properties may deviate from the description.

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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: PU40

**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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Please consider the latest version of this product information on our website.

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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.

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