# KLB-SYSTEM POLYURETHAN
## PU 465

Stable, pigmented 2-component polyurethane joint compound for construction and expansion joints for PU-BETON.

**Packaging units**

| Article no. | Packaging | Content (kg) | Units/pallet |
|---|---|---|---|
| AK6094-91 | Combi can | 1.00 | 240 |



**Product characteristics**

| | |
|---|---|
| Mixing ratio parts by weight | A : B = 100 : 15 |
| Mixing ratio parts by volume | A : B = 100 : 19 |
| Processing time | 10 °C / 50 °F : 30 min.<br>20 °C / 68 °F : 20 min.<br>30 °C / 86 °F : 15 min. |
| Processing temperature | Minimum 10 °C / 50 °F (room and floor temperature) |
| Curing time (accessibility) | 10 °C / 50 °F : 24 - 36 hrs.<br>20 °C / 68 °F : 18 - 24 hrs.<br>30 °C / 86 °F : 10 - 12 hrs. |
| Curing | 24 hours at 20 °C / 68 °F for mechanical load<br>7 days at 20 °C / 68 °F for chemical resistance |
| Consumption | Approx. 0.150 kg per running meter for joints 8 x 12 mm |
| Colours | Beige, Grey, Green, Red |
| Shelf life | 12 months (originally sealed) |

**Product description**

**KLB-SYSTEM POLYURETHAN PU 465** is an elastic, solvent-free, pigmented 2-component polyurethane joint compound which is particularly suitable for grouting construction and expansion joints with low movement - preferably together with PU concrete coatings. Already existing expansion joints in concrete may be grouted with **KLB-SYSTEM POLYURETHAN PU 465**. Total deformation may not exceed 10 % of the joint width.

**KLB-SYSTEM POLYURETHAN PU 465** results in flexible joints with increased thermal (hot water) and good abrasion resistance, even with traffic load. The joint compound is resistant to chemicals, e.g. different solvents, diluted acids and bases, water, oil, grease, salt, and their solutions. Polyurethane joint compounds are subject to slight changes in colour which does not affect the technical properties.

**KLB-SYSTEM POLYURETHAN PU 465** and **KLB-SYSTEM POLYURETHAN PU 465 LQ** are sealants equipped with a preventive protection against mould growth. This assists the production of permanently hygienic surfaces, even between the necessary cleaning and disinfection cycles. With **KLB-SYSTEM POLYURETHAN PU 465 LQ** exists a fluid, not thioxtropic, alternative material for application.

**Important note:** elastic joints are subject to significantly higher stress than PU-BETON coatings. Therefore, the joints must be checked periodically and renewed if necessary.

## Area of application

- Dummy, movement and construction joints with little movement.
- Offers good chemical resistance. Therefore, the product is mainly used in combination with PU-BETON coatings.

## Product features

- stable setting
- elastic and deformable
- good chemical resistance
- resistant to abrasion and wear

## Technical data

| | | | |
|---|---|---|---|
| Viscosity - Component A+B | Approx. 35000 | mPas | DIN EN ISO 3219 (23 °C / 73.4 °F) |
| Solid content | > 99 | % | KLB method |
| Water absorption | <1 | weight-% | DIN 53495 |
| Breaking strain | 80 | % | DIN EN ISO 527-3 |
| Shore-hardness A | > 70 | - | DIN 53505 (after 7 days) |
| Abrasion (Taber Abraser) | 30 | mg | ASTM D4060 (CS10/1000) |

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

## Tests

External test certificates are available:

- Anti-mould or anti-fungal tested according to SN 195921 (test germ: aspergillus niger).

**Note:**

Please ask for the tested system build-up!

## Substrate

The joint to be filled must be dry, free of dust, sufficiently resistant to tension and compression as well as be free from weakly-bonded components, oils and liquid impurities. Because of the adjusted texture, the material is usable for slight inclines as well. Materials impairing adhesion such as grease, oil, paint residues, cement or other weakly-bonded or lose parts should be removed beforehand with suitable measures. After clean-up, the joint or bonding area may be cleaned with compressed air. Prepare joints and adhesion surface areas thoroughly and accurately each time. **PU 465** is suitable for grouting mortar floors based on PU-BETON.

In order to guarantee a sufficient adhesion to metallic surfaces (such as stainless steel gutters or other installations), these must be imperatively ground, sandblasted and free of grease. They must be primed with **EP 52 Spezialgrund** and sanded with quartz sand of grain size 0,1/0,5 mm or 0,3/0,8 mm.

## 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.

**Processing**

Joints, if not already existing, need to be cut in the substrate with a rotary cutter, and vacuumed with an industrial hoover. Clean both joint edges with a solvent, e.g. **VR 28** or **VR 33**. After drying, place adhesive tape on both joint shoulders. Afterwards, a closed-cell PE-round cord of suitable joint width is inserted to prevent three-sided adhesion.

The mixed material needs to be pressed into the joint with a spatula and once completely filled, the joint is smoothened evenly on the surface. For concave constructed joints exposed to traffic load, finishing with a spatula or finger trowel is suggested. On vertical walls or steep inclines, the material must be additionally thickened with 1 - 2 % of the **KLB-Stellmittel 5 FT** suspending agent to prevent it from running off the wall.

Floor and air temperature must not fall below 10 °C / 50 °F and humidity should not exceed 75 %. The difference in floor and room temperature must remain less than 3 °C / 3 K / 5.4 °F so that curing will not be disturbed. If a dew-point situation arises, regular curing and adhesion may be disrupted with 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 may increase; higher temperature 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 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 containers and use up the content as soon as possible. Storage at lower temperatures may cause crystalline deposits in the hardener, which can, however, be melted again by gentle heating.

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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.

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. With appearance of this new KLB product information, all prior information loses validity. The updated version is available on our website www.klb-koetztal.com. In addition, our "General Terms and Conditions“ apply.

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