KLB-SYSTEM POLYURETHAN
PU 465 LQ

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

Packaging units

Article no.	Packaging	Content (kg)	Units/pallet
AK6094-90	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. 20 °C / 68 °F : 20 min. 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. 20 °C / 68 °F : 18 - 24 hrs. 30 °C / 86 °F : 10 - 12 hrs.
Curing	24 hours at 20 °C / 68 °F for mechanical load 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 LQ 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-BETON coatings. Already existing expansion joints in the concrete may be grouted with **KLB-SYSTEM POLYURETHAN PU 465 LQ**. Total deformation may not exceed 10 % of the joint width.

KLB-SYSTEM POLYURETHAN PU 465 LQ 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** exists a paste-like, stable, 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

- elastic and deformable
- good levelling properties
- good chemical resistance
- resistant to abrasion and wear

Technical data

Viscosity - Component A+B	Approx. 13000	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 LQ** 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 1 - 2 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 product **PU 465 LQ** is a liquid version of **PU 465**. The material mixed in the appropriate ratio is used in joints that are difficult or hard to fill. This is particularly suitable for horizontal joints without inclines. The liquid and self-levelling setting makes it easier to achieve a smooth and attractive surface.

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.

Cleaning

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

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.

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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