KLB-SYSTEM POLYURETHAN
PU 61 RAPID

Rapid setting, one-component polyurethane primer

Packaging units

Article no.	Packaging	Content (kg)	Units/pallet
PU6860-50	Canister	10.00 kg	50

Product characteristics

Mixing ratio parts by weight	One-component, no pot life
Processing temperature	Minimum 15 °C / 59 °F (room and floor temperature)
Curing time (accessibility)	Absorbent substrates: 15 °C / 59 °F : 1,5 - 2 hrs. 20 °C / 68 °F : 40 - 50 min. 30 °C / 86 °F : 20 - 25 min. Non-absorbent substrates: 15 °C / 59 °F : 2 - 3 hrs. 20 °C / 68 °F : 60 - 90 min. 30 °C / 86 °F : 30 - 45 min.
Further coatings	After curing, but after 48 hours at the latest at 20 °C / 68 °F
Consumption	Pre-coat: 0.100 - 0.150 kg/m² Moisture barrier: 0.150 - 0.200 kg/m² for each coat with minimum 2-layered application
Shelf life	6 months (originally sealed) – **Protect from frost!**

Product description

KLB-SYSTEM POLYURETHAN PU 61 RAPID is a solvent-free, ready-to-use one-component polyurethane base coat which cures by humidity. **KLB-SYSTEM POLYURETHAN PU 61 RAPID** is used as base coat and solidification for absorbent, mineral substrates prior to glueing parquet flooring with reactive resin adhesives, as well as before the application of mineral filling compounds with an in-between sanding.

KLB-SYSTEM POLYURETHAN PU 61 RAPID is low-emission according to AgBB and suitable for recreation rooms.

KLB-SYSTEM POLYURETHAN PU 61 RAPID can be used damp-proof substrates, by applying several coats to block excessive residual moisture. For cement screeds without underfloor heating up to a maximum of 4.5 CM-%, for heated cement screeds up to a maximum of 3.0 CM-%. A moisture barrier can be applied with **KLB-SYSTEM POLYURETHAN PU 61 RAPID** on substrates without basement.

Due to its very well penetrating and stabilizing effects, the product is very well suitable for mineral, absorbent substrates, like cement, calcium sulphate, and magnesia screed. But also for priming old renovation substrates that have, for example, residues of firmly adhering adhesive and levelling compound residues or even water-soluble adhesive residues. Furthermore, it is appropriate for ceramics, chipboard, or oriented strand boards (OSB), dry gypsum screeds, and many more. **KLB-SYSTEM POLYURETHAN PU 61 RAPID** is a fast-curing primer with short recoating times, which is particularly advantageous for smaller surfaces.

KLB-SYSTEM POLYURETHAN PU 61 RAPID is certified by EUROFINS and EMICODE EC1 Plus; thus meets the requirements for a sustainable building certification according to DGNB, LEED or BREEAM; not only the German requirements of AgBB or ABG, but also the emissions regulations of many other European countries.

Area of application

- Use as primer before laying parquet flooring with polyurethane-based reactive resin adhesives.
- Use as barrier coat for concrete and cement screed with increased residual moisture content up to a maximum of 4.5 CM-%.
- Soldification of mineral, absorbent substrates.
- Use as bonding agent with in-between sanding for cement-filler compounds.
- Base coat for substrates susceptible to reconstruction and moisture.

Product features

- tested, low-emission quality
- EMICODE EC 1 plus certified
- compliant with AgBB and suitable for recreation rooms
- good wetting properties
- rapid-setting
- moisture-blocking
- free of deleterious substances against varnish
- odorless
- very high adhesion
- good processing properties

Technical data

Viscosity	250	mPas	DIN EN ISO 3219 (23 °C / 73.4 °F)
Solid content	100	%	KLB method
Density	1.17	kg/l	DIN EN ISO 2811-2 (20 °C / 68 °F)

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

Tests

The following external test certificates are available:

- Certified as low-emission according to EMICODE with the EC1 Plus label. Compliant with AgBB for recreation rooms.

Substrate

The substrate 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 or paint residues should be removed beforehand with suitable measures. The substrates must have a sufficiently high strength for the intended use. Concrete must generally be shot-blasted. Carefully sand cement and calcium sulphate screeds, ceramic coverings or sealings and vacuum them dust-free. The surface strength must then be at least 1.5 N/mm². Cement screeds must be sufficiently dry (less than 2.0 CM-%) when used as a primer. When used as a barrier primer (residual moisture: cement screeds up to 4.5 CM-%, heating cement screeds and structures in contact with the ground up to a maximum of 3.0 CM-%), at least two layers in the recommended processing quantities are required. The possibility of moisture ingress from the rear must be permanently excluded. Observe the information issued by the trade associations, e.g. the most recent versions of BEB worksheets KH-0/U and KH-0/S. Reconstructing floors may need special procedures. Obtain technical advice.

Mixing

Bring the material to a suitable room temperature (at least 15 °C / 59 °F), shake well, and empty it into a clean oval bucket. Already opened material may have built a top layer film which needs to be removed. Do not blend in any material that has already reacted.

Processing

Apply the base coat in portions on the substrate and distribute in an evenly thin layer with a velour roller, foam roller, or a trowel. It is very important to avoid ponding as thicker layers extremely delay curing and impair the adhesion of subsequent coatings!

One layer of application is sufficient if the material is used as base coat on sealed or slightly absorbent substrates. On smooth substrates when gluing parquet directly, **PU 61 RAPID** can also be applied very thinly with a varnish trowel for faster drying. Apply 2 to 3 layers for saturating highly absorbent substrates, like dry screed elements, chipboards, and others, or if used as solidification layer on porous substrates. If the material is used as barrier coat against increased residual moisture, always apply at least twice over the entire surface in a crosswise motion. Reactive resin adhesives may now be used right on top within 36 hours. For longer waiting periods or subsequent mineral coatings, apply a third layer with complete scattering using fire-dried quartz sand (grain size 0.3/0.8 mm, consumption approx. 2 - 3 kg/m²).

Check the climate conditions and ensure good air exchange after application. Floor and air temperature must not fall below 15 °C / 59 °F and humidity should not exceed 75 %. The difference in floor and air temperature should 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 will not be possible with hardening problems and spotting to occur. The specified curing times apply for 20 °C / 68 °F; temperatures below this require longer processing and curing times, while higher temperatures require shorter times.

Cleaning

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

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.

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: RU1

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

CE marking

CE

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DIN EN 13813:2003-01

Synthetic resin screed mortar
DIN EN 13813: SR-B1.5

Fire behaviour	E_{fl}-s1
Emission of corrosive substances	SR
Wear resistance BCA	NPD
Adhesive tensile strength	B 1.5
Impact resistance	NPD

NPD = No Performance Determined

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

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