

FLOOR SEALER

100 Transparent R10



Slip-resistant, non-pigmented, low-emission and environmentally friendly 2-component polyurethane sealer for renovating top floors with good adhesion. Matt, light-stable, abrasion-resistant and very resistant to staining.

Packaging units



Article no.	Packaging	Content (kg)	Units/pallet
FF6528-70	Combo packaging	5.25 kg	60
FF6528-41	Combo packaging	10.50 kg	60

Product characteristics

Mixing ratio parts by weight	A : B = 100 : 23.5
Mixing ratio parts by volume	A : B = 100 : 23,5
Processing time	10 °C / 50 °F: 60 - 90 minutes 20 °C / 68 °F: 45 - 60 minutes 30 °C / 86 °F: 30 - 45 minutes
Processing temperature	Minimum 10 °C / 50 °F (room and floor temperature)
Curing time (accessibility)	10 °C / 50 °F: 20 - 26 hrs. 20 °C / 68 °F: 12 - 16 hrs. 30 °C / 86 °F: 10 - 14 hrs.
Curing	After 2 - 3 hours dust-dry at 20 °C / 68 °F 2 - 3 days until mechanical load at 20 °C / 68 °F 7 days until chemical load at 20 °C / 68 °F
Further coatings	After 12 - 16 hours, but after 48 hours at the latest at 20 °C / 68 °F
Consumption	Approx. 0.120 - 0.160 kg/m ²
Packaging	Combo can 1.05 kg, combo packaging 5.25 kg, combo packaging 10.5 kg
Shelf life	12 months (originally sealed) – Protect from frost!

Product description

FLOOR SEALER 100 Transparent R10 is a low-emission 2-component polyurethane sealer on the basis of polyurethane for colourless sealing of top floors that are no longer visually appealing after a certain period of use. Suitable for being refurbished, renovated and refreshed are firmly bonded floor coverings like homogeneous and heterogeneous PVC coverings, linoleum as well as rubber and rubber stud coverings after appropriate cleaning and preparation.

FLOOR SEALER 200 Color is used as a base coat with scattering of **partiColor® coloured flakes** and subsequent sealing with **FLOOR SEALER 100 Transparent R10**.

FLOOR SEALER 100 Transparent R10 is a special top sealer for producing slip-resistant surfaces. It has been tested according to DIN 51130 and BGR 181, rated with slip resistance grade R10. As an alternative to this, the standard product **FLOOR SEALER 100 Transparent** is available without any anti-slip properties.

Note: the processing information and the technical data of the slip-resistant sealer do not differ from the standard product.

The sealer has a very good adhesion on prepared substrates and results in attractive, matt surfaces. Old coverings that are no longer visually appealing can thus have their useful life extended – or, if desired, be changed completely. In addition, the refurbishment can be carried out in a very short period of time, which reduces downtimes to a minimum, especially in intensively used buildings (public areas, retirement homes, hospitals, etc.). Refreshing can also be carried out during running business due to the low emissions and odour nuisance.

The product comprises a water-emulsified, high-quality polymer dispersion that cures in a close mesh structure. This technology makes it possible to produce coating materials that are Emicode®-certified and classified in the extremely low-emission category EC 1^{PLUS}. It is thus suitable for use in recreation rooms and other areas in which no emissions are desired. The product meets the sustainable construction criteria, e.g. DGNB, LEED or Minergie ECO.

FLOOR SEALER 100 Transparent R10 hardens by physical drying and chemical cross-linking to form a resistant, robust film, which is also abrasion-resistant, light-stable, with low soiling tendency and a good cleanability. Thanks to its excellent curing capacity, it has a very low susceptibility to staining for its product class. It is highly resistant to discolouration caused by household chemicals or strongly staining foods and beverages, such as beer, red wine or coke.

Area of application

- For refreshing firmly bonded floor coverings like PVC coverings, linoleum, rubber and rubber stud coverings.
- As transparent sealer, e.g. for coverings scattered with decorative flakes.
- Certified as low-emission according to EMICODE EC1 plus and suitable for indoor recreation rooms.

Product features

- very low-emission
- EMICODE® EC 1PLUS certified
- low susceptibility to staining
- very high adhesion
- low-odor
- light-stable
- resistant to abrasion and wear
- matt
- even surface
- slip-resistant

Technical data

Viscosity - Component A+B	Approx. 550	mPas	DIN EN ISO 3219 (23 °C / 73.4 °F)
Solid content	> 40	%	KLB method
Density - Component A+B	1.08	kg/l	DIN EN ISO 2811-2 (20 °C / 68 °F)
Flashpoint	Non combustible	-	DIN 51755
Gloss level	(85°) approx. 15	-	DIN 67530

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

Tests

The following external test certificates are available:

- Slip-resistance in R10 according to DIN 51130 and BGR 181.
- Tested and certified as low-emission according to EMICODE with the EC1 plus label.

Build-up of coats

Please note the FLOOR SEALER installation recommendation!

In principle, top coverings can be sealed twice in colour with **FLOOR SEALER 200 Color** to create a plain-coloured, matt surface. The 2nd layer can be scattered with **partiColor® coloured flakes** when wet. After drying, remove loose chips and additionally apply a transparent wearing layer with **FLOOR SEALER 100 Transparent R10**.

Substrate

The surface to be renovated must be firmly bonded to the substrate. Chipping, holes, etc. can be filled with **FLOOR SEALER Repair 72**, then sanded. If necessary, surface detachments must be re-glued with coating.

The surface must be cleaned of loose dirt by sweeping or vacuuming. On old coverings, cleaning and mechanical preparation must be carried out. Please observe the procedure in the "**FLOOR SEALER** installation recommendation".

Mixing

Combo-packaging will be supplied in the correctly measured mixing ratio. Allow the container of component A to come to processing temperature before use and shake well, then empty the contents into a clean, oval bucket. Add component B and mix immediately. Blend with a slow speed mixer (200 - 400 r/pm) for at least 2 - 3 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.

Mix carefully, especially for floor and wall areas. No maturing time is required before application. If drying occurs in the wall area or a skin forms during storage, the product must be sieved off. Suitable sieve for round bucket: item number WZ7050-01.

Note: end of pot life is not visible! Processing time must be adhered to according to the stipulations in chart "Processing time" (page 1).

Processing

Please note the FLOOR SEALER installation recommendation!

As with all reactive resin products, processing of **FLOOR SEALER** should take place immediately after mixing.

The application is carried out with the 1 mm rubber toothing, then pass over the surface with a roller. Observe the tool recommendation in the installation information!

Typically, work areas are divided up beforehand. For larger areas, it is recommended that sufficient personnel are available for sealing. One or more persons apply the material, while another person takes over the distribution of the freshly applied sealing material in crosswise motion.

The sealing roller should be saturated/wetted with material and only be used for re-rolling, never for application of the top sealer. Always work "fresh-in-fresh" and ensure optimum distribution of the material. Avoid puddle formation and overlapping application. Otherwise, an uneven surface appearance and streaking might appear.

Cleaning

To clean tools and to remove fresh contamination, use water immediately. Hardened material can only be removed mechanically.

Cleaning

Separate cleaning and care recommendations are available for cleaning sealed floors. Water-based sealers must only be cleaned at the earliest after 7 days to guarantee the interlayer adhesion at 20 °C / 68 °F.

Storage

Store in a dry, frost-free location. Ideal storage temperature 10 - 20 °C / 50 - 68 °F. Protect against direct sunlight. Do not store in overheated vehicles or at temperatures above 25 °C / 77 °F. There is a risk of clumping.

Bring to a suitable working temperature before application. Tightly re-seal opened packages and use up the content as soon as possible.

Special remarks

This 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: PU10

Indication of VOC-content:

(EG-Regulation 2004/42) Maximum Permissible Value 140 g/l (2010,II,j/wb): Ready-for-use product contains < 140 g/l VOC.

CE marking

	
KLB Kötztal Lacke + Beschichtungen GmbH Günztalstraße 25 FRG-89335 Ichenhausen	
19	
Floor Sealer 100 Transparent -V1-112019	
DIN EN 13813:2003-01	
Synthetic resin screed mortar DIN EN 13813: SR-B2.0-AR0.5-IR16	
Fire behaviour	E _f -s1
Emission of corrosive substances	SR
Wear resistance BCA	AR 0.5
Adhesive tensile strength	B 2.0
Impact resistance	IR 16

VOC content

The product complies with the high requirements to low VOC contents, as required for sustainable construction. Therefore, these values are well below the limits set by the European Union directive 2004/42/EG (Decopaint Directive).

	Limit value	Actual content	
Decopaint Directive 2004/42/EG - Component A	< 140	0	g/l
Decopaint Directive 2004/42/EG - Component B	< 140	0	g/l
DGNB - Components A + B	< 3	0	%
klima:aktiv – Components A + B	< 3	0	%
LEED - Components A + B	< 100	0	g/l
Minergie ECO ® - Components A + B	< 1 (<2)	0	%

(According to the Decopaint directive, single components are used for calculation. In the sustainable building rating systems, the mixture of both components in the correct mixing ratio is the determining factor.)



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-koetzel.com. In addition, our "General Terms and Conditions" apply.