

# FLOOR SEALER

## 300 Antistatic



Coloured, electrically conductive, low-emission and environmentally friendly 2-component polyurethane sealer for renovating top floors with good adhesion.

### Packaging units

| Article no. | Packaging       | Content (kg) | Units/pallet |
|-------------|-----------------|--------------|--------------|
| FF6953-41   | Combo packaging | 10.00 kg     | 60           |



### Product characteristics

|                              |                                                                                                                                                                                                                                                       |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mixing ratio parts by weight | A : B = 100 : 20                                                                                                                                                                                                                                      |
| Mixing ratio parts by volume | A : B = 100 : 19                                                                                                                                                                                                                                      |
| Processing time              | 10 °C / 50 °F: 60 - 90 minutes<br>20 °C / 68 °F: 45 - 60 minutes<br>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 - 24 hrs.<br>20 °C / 68 °F: 12 - 16 hrs.<br>30 °C / 86 °F: 10 - 14 hrs.                                                                                                                                                             |
| Curing                       | After 2 - 3 hours dust-dry at 20 °C / 68 °F<br>2 - 3 days until mechanical load at 20 °C / 68 °F<br>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. 0.150 - 0.200 kg/m <sup>2</sup>                                                                                                                                                                                                               |
| Packaging                    | Combo packaging 5.00 kg, combo packaging 10 kg                                                                                                                                                                                                        |
| Colours                      | Please have a look at our <b>FLOOR SEALER colour chart</b> ; other colours available on request.<br>RAL colours (lightest colours RAL 7035 and RAL 1001), NCS colour tones; (Due to the conductive adjustment, colour tone irregularities may appear) |
| Shelf life                   | 12 months (originally sealed) – <b>Protect from frost!</b>                                                                                                                                                                                            |

### Product description

**FLOOR SEALER 300 Antistatic** is a low-emission 2-component sealer on the basis of polyurethane for pigmented sealing of electrically conductive top floors that are no longer visually appealing after a certain period of use. Alternatively, non-conductive floor coverings can be sealed to be volume-conductive by applying **FLOOR SEALER 300 Antistatic**. 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 300 Antistatic** is applied as a conductive, uni-coloured sealer at least once onto a conductive surface covering. For the reuse of non-conductive subfloors, copper strips must be applied after appropriate preparation, followed by a double application of **FLOOR SEALER 300 Antistatic**. As the electrical conductivity is strongly dependent on the substrate, deviating conductivity values for resistance to ground, human-shoe-floor and walking test are possible. **FLOOR SEALER 300 Antistatic** can be supplied in a variety of different colour shades (e.g. according to RAL and NCS colour charts).

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 environmentally-friendly technology makes it possible to produce very low-emission coating material. The product thus is suitable for use in recreation rooms and other areas in which no emissions are desired. It meets the sustainable construction criteria, e.g. for DGNB, LEED or Minergie ECO.

**FLOOR SEALER 300 Antistatic** 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. As resistance to staining by all substances under all conditions cannot be guaranteed, please consider additional technical information in this regard.

The hardened sealer has good resistance to water, cleaning agents, aqueous solutions, saline solutions, diluted acids and bases, and others. Seek advice and request a stain or chemical resistance list.

**FLOOR SEALER 300 Antistatic 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.

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

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#### Area of application

- For refurbishing, renovating or refreshing firmly bonded top coverings.
- Suitable for PVC coverings, linoleum, rubber and rubber stud coverings.
- Conversion of non-conductive subfloors to electrically conductive surface coverings.
- Certified as low-emission based on EMICODE EC1 plus and suitable for indoor recreation rooms.

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#### Product features

- electrically conductive for explosion protection
  - for increased demands on ESD protection
  - very low-emission
  - EMICODE® EC 1PLUS certified
  - light-stable
  - low susceptibility to staining
  - very high adhesion
  - low-odor
  - resistant to abrasion and wear
  - matt
  - even surface
-

## Technical data

|                           |                                                |      |                                   |
|---------------------------|------------------------------------------------|------|-----------------------------------|
| Viscosity - Component A+B | Approx. 300 - 500                              | mPas | DIN EN ISO 3219 (23 °C / 73.4 °F) |
| Solid content             | > 40                                           | %    | KLB method                        |
| Density - Component A+B   | 1.19                                           | kg/l | DIN EN ISO 2811-2 (20 °C / 68 °F) |
| Abrasion (Taber Abraser)  | < 13                                           | mg   | ASTM D4060 (CS10/1000)            |
| Flashpoint                | Non combustible                                | -    | DIN 51755                         |
| Gloss level               | (85°) <10                                      | -    | DIN 67530                         |
| Resistance to ground      | (non-conductive top floor)<br><10 <sup>6</sup> | Ohm  | DIN EN 61340-5-1                  |
| Walking Body Model        | (non-conductive top floor)<br><100             | V    | DIN EN 61340-5-1                  |
| Human-shoe-floor          | (non-conductive top floor)<br><10 <sup>9</sup> | Ohm  | DIN EN 61340-5-1                  |

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

## Tests

The following external and internal test certificates are available:

- Slip-resistance grade R9 according to DIN EN 16165.
- Tested and certified as low-emission according to EMICODE with the EC 1<sup>PLUS</sup> label.

## Build-up of coats

**Please note the FLOOR SEALER installation recommendation!**

In principle, dissipative top coverings can be sealed twice in colour to create a plain-coloured, electrically conductive, matt surface.

Alternatively, non-conductive top floors can be transformed into conductive ones. For this purpose, non-conductive surface coverings must be sealed twice in colour with **FLOOR SEALER 300 Antistatic** after gluing in copper strips **KLB-Kupferbänder**. This results in a plain-coloured, electrically conductive, matt surface. If a certain surefootedness or slip-resistance of grade R10 is required, **FLOOR SEALER 300 Antistatic R10** can be applied as top sealing layer. If necessary, seek individual consultation from KLB.

## 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".

If existing non-conductive top coverings are to be converted to be conductive, after preparing the substrate in the same way, copper strips **KLB-Kupferbänder** must first be glued into the room approx. 1 - 2 m deep in an imaginary grid every 6 - 8 m to conduct the earthing point. Then seal twice with **FLOOR SEALER 300 Antistatic**.

## 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 compound forms.

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).**

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## 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 2 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.

The copper strips **KLB-Kupferbänder** attached underneath the sealing layer(s) will remain slightly visible despite careful application of the material, which makes them, however, no cause for complaint.

When sealing non-conductive top floors, regular checks of whether the sealing layer is still intact must be carried out, as otherwise conductivity can no longer be guaranteed.

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## Cleaning

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

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.

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## Storage

Store in a dry and 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.

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## 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<br>Günztalstraße 25<br>FRG-89335 Ichenhausen |                     |
| 20                                                                                   |                     |
| FloorSealer300Antistatic-V1-122020                                                   |                     |
| DIN EN 13813:2003-01                                                                 |                     |
| Synthetic resin screed mortar<br>DIN EN 13813: SR-B1.5-AR0.5-IR18                    |                     |
| Fire behaviour                                                                       | E <sub>fl</sub> -s1 |
| Emission of corrosive substances                                                     | SR                  |
| Wear resistance BCA                                                                  | AR 0.5              |
| Adhesive tensile strength                                                            | B 1.5               |
| Impact resistance                                                                    | IR 18               |

#### 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](http://www.klb-koetzel.com). In addition, our "General Terms and Conditions" apply.