FLOOR SEALER

ECONOMICAL RENOVATION OF ELASTIC SUBFLOORS

Installation recommendation for the sustainable renovation of resilient floorings.

GEV-EMICODE EC 1 PLUS very low emission

From basic cleaner to top sealer

THE FLOOR SEALER PRODUCT RANGE

FLOOR SEALER 200 Color

Coloured, low-emission and environmentally friendly 2-component sealer on the basis of polyurethane for refurbishing and renovating top floors. The sealer is light-stable with a low susceptibility to staining and results in a matt appearance.

- high covering power
- great variety of colours
- abrasion-resistant
- low-emission according to **EMICODE® EC1 PLUS**
- light-stable

FLOOR SEALER 100 Transparent

Transparent, low-emission and environmentally friendly 2-component sealer on the basis of polyurethane for refurbishing and renovating top floors. The sealer is light-stable with a low susceptibility to staining and results in a matt appearance.

- matt surface
- abrasion-resistant
- low-emission according to **EMICODE® EC1 PLUS**
- low susceptibility to staining
- light-stable

FLOOR SEALER 300 Antistatic

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

- electrically conductive for explosion protection
- light-stable
- resistant to wear and abrasion
- low-emission according to **EMICODE® EC1 PLUS**
- matt

FLOOR CLEANER PS 350 Grundreiniger

Base cleanser for preparing elastic top floors for subsequent renovation with the **KLB FLOOR SEALER systems**. For removing maintenance films and stubborn soiling on linoleum, PVC, rubber or rubber stud coverings.

- good dissolving power
- high effectiveness
- low foaming
- all-purpose use

All stated information is based on our experience and technical preparation. It is impossible to consider each individual case in the recommendations listed, so the information is only of indicative nature. We ask you to seek detailed advice from our office as the case may be. We guarantee the correct and proper quality of our products. We do not assume responsibility for the work not carried out by us, since we have no influence on the processing or processing conditions on site. We recommend on-site trials to be conducted in individual cases. This advertising brochure contains the current status of KLB technology at the time of publication. Only the latest KLB product data sheet is authoritative for all technical questions. The latest version is available electronically on our website www.klb-koetztal.com. In addition, our "General Terms and Conditions" apply.
Edition 05/2023

FLOOR SEALER

CONTENT

Which substrates are suitable?

KLB FLOOR SEALER was developed for the renovation and upgrading of old, heavily loaded or out-of-date resilient floorings (e.g. PVC, natural rubber, linoleum and many more).

The top floor to be renovated must be firmly bonded to the substrate. Breakouts, holes or other irregularities can be filled with **FLOOR SEALER 72 Repair**, then sanded. If necessary, partial detachments must be re-glued with coating.

The surface needs to be freed from loose dirt by sweeping or vacuuming. Old coverings require prior cleaning and mechanical preparation. For this purpose, please follow the procedure in this installation recommendation.

Substrate preparation

BASIC CLEANING AND SURFACE PREPARATION

In the course of a thorough substrate preparation, remove loose and adhering dirt, as well as old sealants or care films by basic cleaning. Before starting to clean, the room must be cleared out. Cover adjacent floor surfaces, furniture or other objects with foil. Loose, coarse soiling is removed by vacuuming, sweeping or wiping to bind dust (e.g. with a fleece cloth).

The dosage of the basic cleaner is to be set according to the specifications in the table. Please follow these instructions to achieve a good cleaning result.

Type of cleaning	Recommended cleaning agent	Dosage
Basic cleaning	**FLOOR CLEANER PS 350** - Universal base cleanser	1 - 3 litres into 10 litres of water

Underfloor heating must be switched off 24 hours prior to cleaning so that the floor can warm up to room temperature and the basic cleaner does not dry prematurely.

Spread the premixed cleaning solution evenly over the surface and scrub it in intensively with a single-disc machine and a disc brush or alternatively, with a green Superpad or the **KLB Special Cleaning Pad P 200**. Old care film residues and dirt must be completely removed. Treat the edge areas thoroughly with a green pad and the hand pad holder.

As soon as the surface is completely wetted, the basic cleaner must be left to soak in for 5 to 15 minutes. During this time, the floor needs to be protected from drying out due to draughts and the cleaning liquor be kept in constant motion. Caution - there may be a risk of slipping.

KLB Special Cleaning Pad P 200

The actual surface preparation for applying the subsequent layers is carried out by treatment with the **KLB Special Cleaning Pad P 200** and the single-disc machine. In this process, the flooring is cleaned of dirt, at the same time sanded and made ready for the application of the sealer. The edge areas must be carefully worked with a hand pad. Important: For heavier soiling and on rubber stud coverings, prepare the substrate with the more abrasive **KLB Special Cleaning Pad P 100.**

The dirt is then picked up with a wet vacuum cleaner without leaving any residue. A soft rubber mop can be used to remove the liquid from the edges or corners, then collect it with the hoover's suction nozzle.

Substrate preparation

NEUTRALISATION AND RINSING

The thoroughly cleaned and sanded floor covering must be neutralised and rinsed off with water to be residue-free.

On the one hand, this can be done with a brush vacuum cleaning machine or with a single-disc machine and the wet vacuum cleaner. Then mop the floor once again in 2 steps with clear water.

The surface must have a neutral pH value of approx. 7 to 8 before starting to seal. This can be checked with indicator paper. If the pH value is too high (pH > 8) or if there is still visible dirt or residue on the surface, repeat the neutralisation and clear rinsing.

After thorough cleaning, the surface needs to be left dry for 6 - 12 hours. Linoleum should be allowed to dry for up to 24 hours (depending on age and condition), all non-absorbent coverings such as PVC or rubber can be coated after visible drying. Ensure sufficient ventilation. Residual water in depressions must be completely removed or absorbed. If the rooms are poorly ventilated, air handling units or drying equipment can be used to enable faster drying.

The surface should be completely clean after the work steps basic cleaning, neutralisation and rinsing. After full drying, the entire floor must have a clearly visible matt, polished appearance.

If this is not the case or if partial areas are still glossy, especially in the corners of the room or with narrow spatial geometry, these surfaces must be reworked with a **120 P sanding grid**. If necessary, affected zones should be cleaned again after grinding to achieve a completely evenly sanded, clean and dry floor for the subsequent sealing.

Substrate preparation

REPAIR KIT FOR HOLES, CHIPPING OR UNEVENNESS

FLOOR SEALER 72 Repair is a rapid-setting, paste-like 2-component polyester compound for repairing small-surface damages, cracks or indentations on subfloors prior to the use of **KLB FLOOR SEALER systems**. For this purpose, the substrate of the existing covering must be sufficiently load-bearing.

After prior wet basic cleaning and preparation of the damaged areas, **FLOOR SEALER 72 Repair** is suitable for the repair of firmly bonded floor coverings like homogeneous and heterogeneous PVC floors, linoleum as well as rubber floorings.

To do so, flatten the bulges at the points to be repaired, grind and fill them with **FLOOR SEALER 72 Repair**. The damaged surface is then filled in excess using a Japanese or smoothing trowel. After 15 - 20 minutes, the excess can be sanded down to floor level (e.g. using an eccentric grinder, sandpaper grain size 120).

Important note:
On rubber floorings, the defective area must be roughened in the depressions before applying **FLOOR SEALER 72 Repair** to achieve good adhesion. Then finish the surface using **FLOOR SEALER 200 Color**; optionally, scatter it with **KLB-SYSTEM partiColor®-Chips** and apply **FLOOR SEALER 100 Transparent. FLOOR SEALER 300 Antistatic** is also suitable. The sealed top floor is resistant to mechanical loads after 24 hours.

For further details, please observe the current version of the product information sheet.

Technical data	
Consumption	approx. 1.89 g/cm³
Curing time (grindability)	after 15-20 min. at 20 °C / 68 °F

FLOOR SEALER 72 Repair

Rapid-setting, paste-like 2-component polyester compound for repairing small-surface damages, cracks or indentations on subfloors prior to the use of KLB **FLOOR SEALER systems**.

- rapid-setting
- easily grindable
- good adhesion
- convenient processing

Renew instead of throwing away – with the KLB FLOOR SEALER range

FRESH COLOURS FOR ELASTIC SUBFLOORS

For renovations with **KLB FLOOR SEALER systems**, you can choose from a wide range of attractive standard colours. Use strong tones for creating visual highlights and subtle tones for a pleasant room atmosphere. Special colours are also possible and can be produced for an additional surcharge.

Processing instructions

ECONOMIC SUBFLOOR RENOVATION

The single-colour system **KLB FLOOR SEALER ECONOMIC** is applied in two sealing layers and thus offers the possibility of an economical, time-saving reworking of old surface coverings that are in need of renovation.

Base layer

The application of the base coat with **FLOOR SEALER 200 Color** is usually done along the short edge of the room if it is rectangular. Pre-paint the front side, then work in parallel, type "wet in wet", along the freshly applied material.

Pillars and other connections in narrow room geometries have to be coated together with the floor. The base layer should only be applied so far that a wet edge is always present and working the material into each other is possible. The time frame until the rolled edge is dry is a maximum of 5 to 7 minutes. If this is not observed, drying marks and colour changes may occur.

FLOOR SEALER 200 Color is applied by one or more persons, depending on the size of the area, with an orange microfibre roller, pile height 16 mm / pile width 25 cm. Ensure an even application and check the consumption quantities. Organise the installation work in a way that re-rolling and finishing can take place immediately afterwards. This is done in crosswise motion (90° to the application direction) using an orange microfibre roller, pile height 6 mm in a roller width of 50 cm.

The material can also be applied with a 1 mm rubber toothing (KLB tool). Then immediately equalise it with an 8 mm velours roller (KLB tool) at an angle of 90° to the application direction and subsequently, re-roll again in crosswise motion with a 6 mm velours roller in a roll width of 50 cm.

Equalising and re-rolling takes place shortly after application. The roller is moved over the surface without pressure at a constant speed and always in the same direction, if possible towards the incidence of light.

When working on the surface, we recommend wearing blunt nail shoes with button heads to avoid puncturing the elastic covering.

Top layer

After sufficient drying, apply the coating with **FLOOR SEALER 200 Color** in the same procedure as for the base coat. If further sealing layers are required, apply them exactly like before.

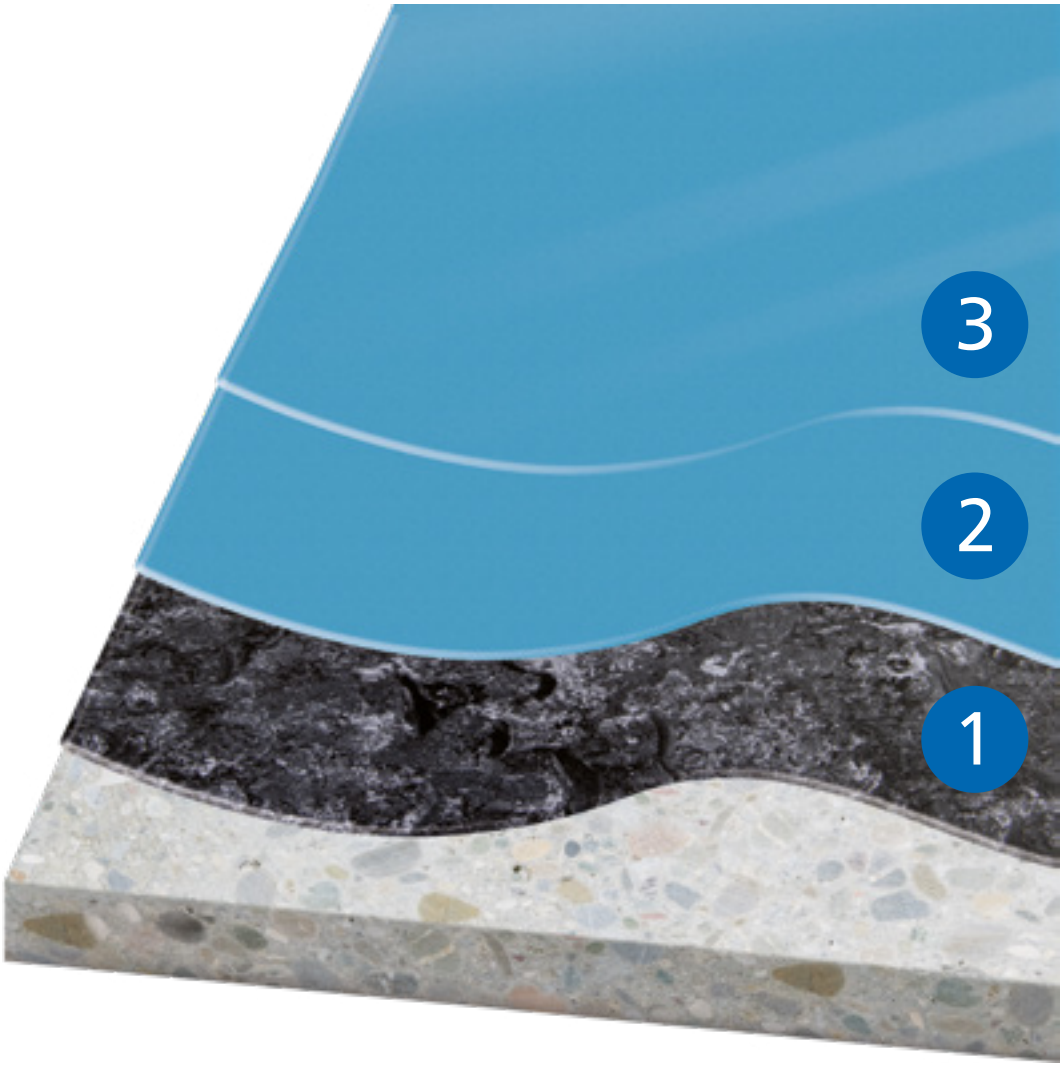
Important note: If dark old floor coverings are sealed with a light colour of **FLOOR SEALER 200 Color,** a third sealing coat may be necessary to achieve complete colour coverage.

This applies in particular to the following shades: White, Yellow, Orange and Light Grey tones.

FLOOR SEALER 200 Colour 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.

System build-up

KLB FLOOR SEALER ECONOMIC



3 Second sealing layer with **FLOOR SEALER 200 Color**

2 First sealing layer with **FLOOR SEALER 200 Color**

1 Old flooring with recommended preparation

Technical data	
Consumption FLOOR SEALER 200 Color	approx. 0.12 - 0.15 kg/m² per layer
Curing time	12 - 16 hours at 20 °C / 68 °F

Application

DECORATIVE REFURBISHMENT OF EXISTING TOP FLOORS

System **KLB FLOOR SEALER EXCLUSIVE** is applied in three sealing layers. Analogous to the application of the base layer within **KLB FLOOR SEALER ECONOMIC**, a top coat in the same colour is now applied, which can optionally be scattered with **partiColor®-Chips No. 1.** The final sealing consists of a transparent top and wearing layer.

Decorative colouring

For more visually appealing floor surfaces that are less susceptible to visible soiling, **partiColor®-Chips No. 1** can be scattered into the second sealing layer while the floor is still being installed (see **ECONOMIC** system build-up).

The colour of the chips can be selected from a wide range. They must not be scattered in full (only with a maximum coverage of 70% of the surface). For coatings where a higher dirt input is to be expected, chip mixtures with particularly high-contrast colours are useful. Please note the recommended consumption quantities.

Scattering is done with a bedding aid such as a compressed air driven hopper gun, an autonomously operating Chiron blower or a Wolf WE-B universal spreader. The **partiColor®-Chips No. 1** are scattered in segments/lanes. Make sure that the area of the wet edge is free of **partiColor®-Chips** to exclude a possible overlay.

After the sealer has dried/cured, remove the excess **partiColor®-Chips**. The loose flakes can be carefully swept off with a broom. If necessary, remove other weakly adhering chips with a brush. Be careful not to soil the surface when walking on it (wear overshoes).

Transparent top sealing

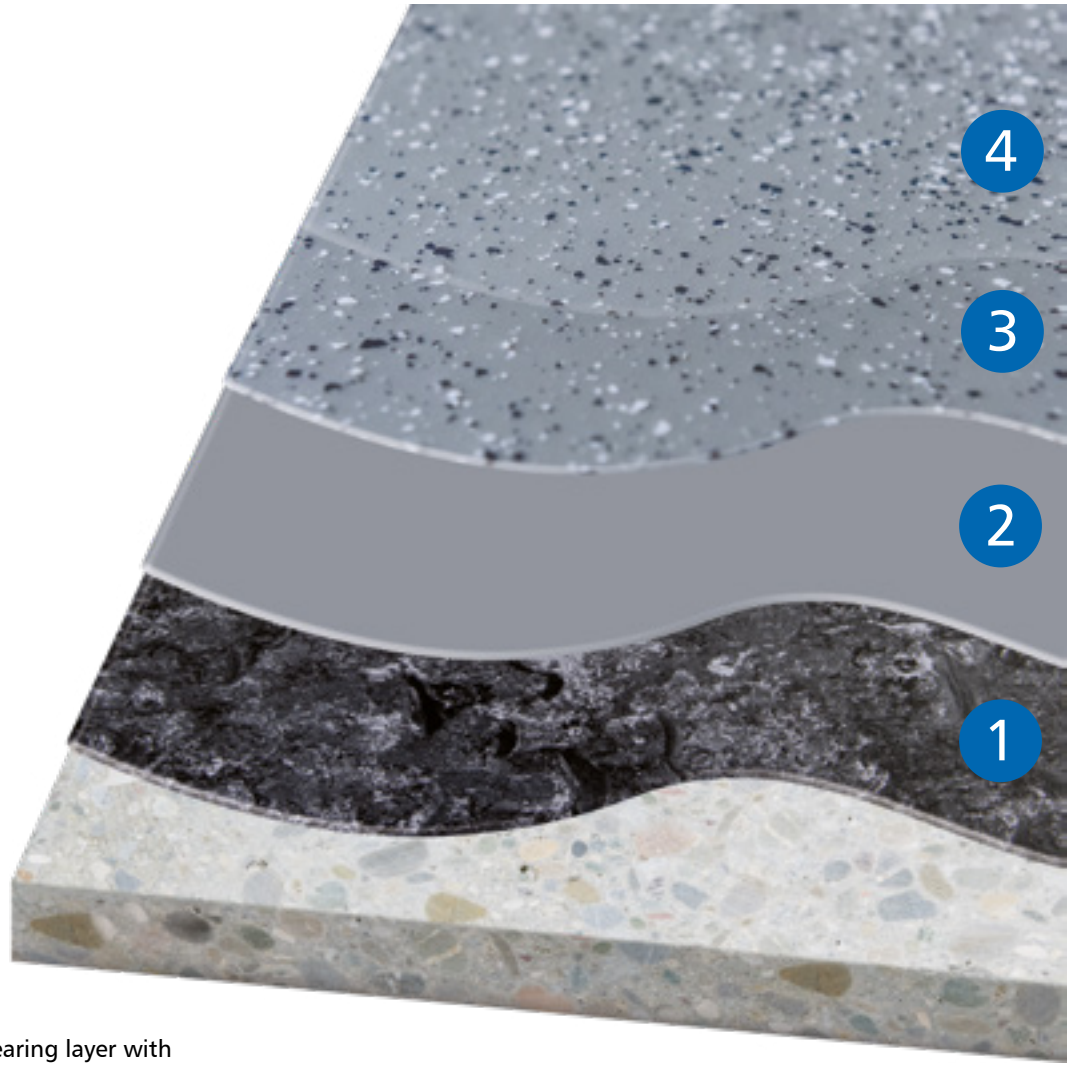
Finally, apply the transparent, matt top sealer **FLOOR SEALER 100 Transparent** in the same way as the previous coats.

This sealer achieves an optimal starting point for subsequent use of the flooring. **FLOOR SEALER 100 Transparent** improves the floor's wear properties and protects the **partiColor®-Chips No. 1** from mechanical or chemical stress.

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.

System build-up

KLB FLOOR SEALER EXCLUSIVE



4 Wearing layer with
FLOOR SEALER 100 Transparent

3 Second sealing layer with
FLOOR SEALER 200 Color
optionally, scattering not in full with
partiColor®-Chips No. 1

2 First sealing layer with
FLOOR SEALER 200 Color

1 Old flooring with recommended preparation

Technical data	
Consumption FLOOR SEALER 100 Transparent	approx. 0.14 - 0.16 kg/m²
Curing time	12 - 16 hours at 20 °C / 68 °F

Decorative colouring	
Consumption partiColor®-Chips No. 1	openly scattered approx. 25 - 80 g/m²

Application

KLB FLOOR SEALER ANTISTATIC

FLOOR SEALER 300 Antistatic is a low-emission 2-component top sealer on the basis of polyurethane. The pigmented sealant is applied onto electrically conductive top floors that are no longer visually appealing after a certain period of use.
Alternatively, non-conductive coverings can also be converted into a volume-conductive floor.

Decorative colouring

In principle, conductive floorings can be sealed in two layers with **KLB FLOOR SEALER ANTISTATIC** to create a plain-coloured, electrically conductive and matt surface.

If existing non-conductive top floors 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**.

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.

Processing is done just like the single-colour system KLB FLOOR SEALER ECONOMIC.

Top layer

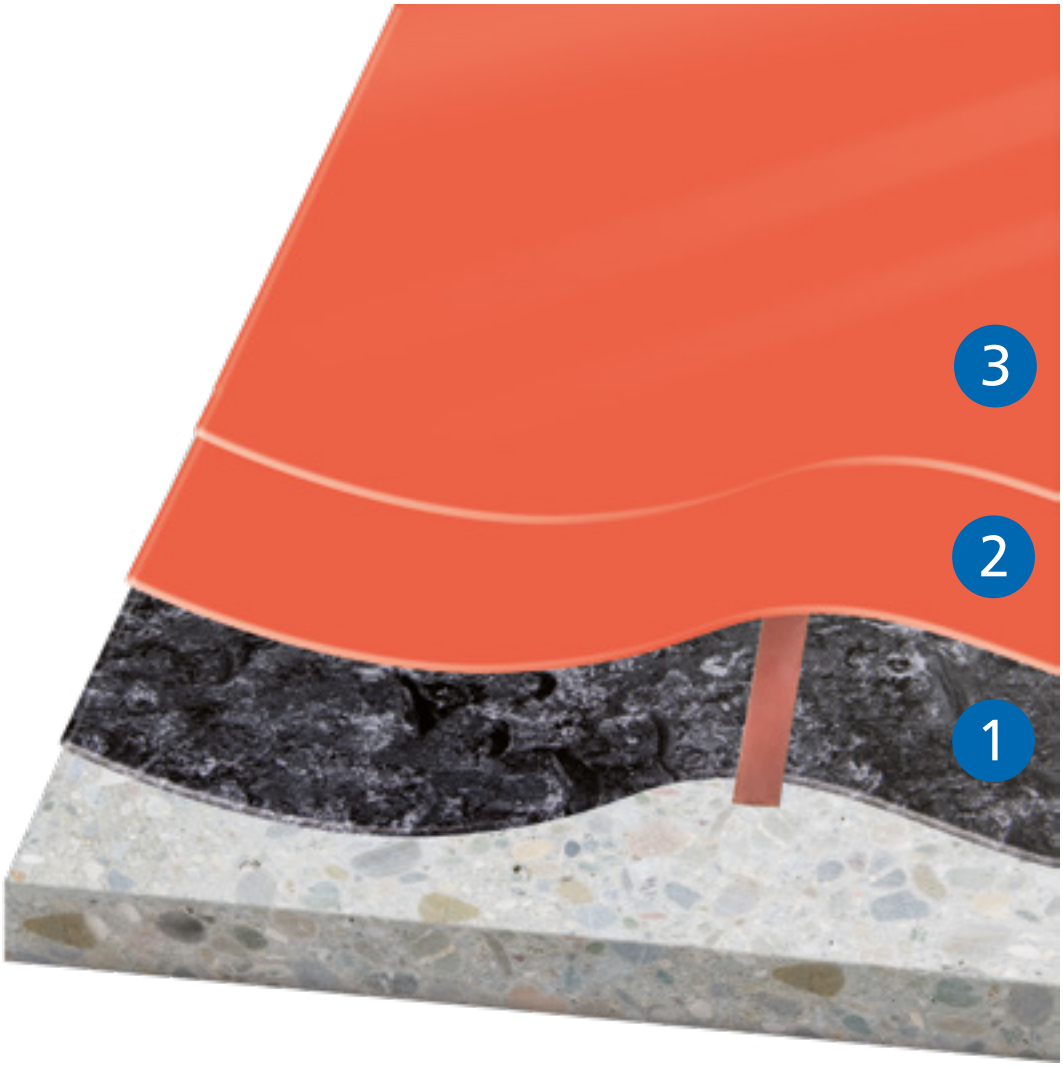
After sufficient drying, apply the coating with **FLOOR SEALER 300 Antistatic** in the same procedure as for the base coat. If further sealing layers are required, apply them exactly like before. The copper strips **KLB-Kupferbänder** attached underneath will remain slightly visible despite careful application of the material, which makes them, however, no cause for complaint. It is recommended to place them in blind spots of the room, provided that the geometry allows this.

Important note: 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.

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 R11.

System build-up

KLB FLOOR SEALER ANTISTATIC

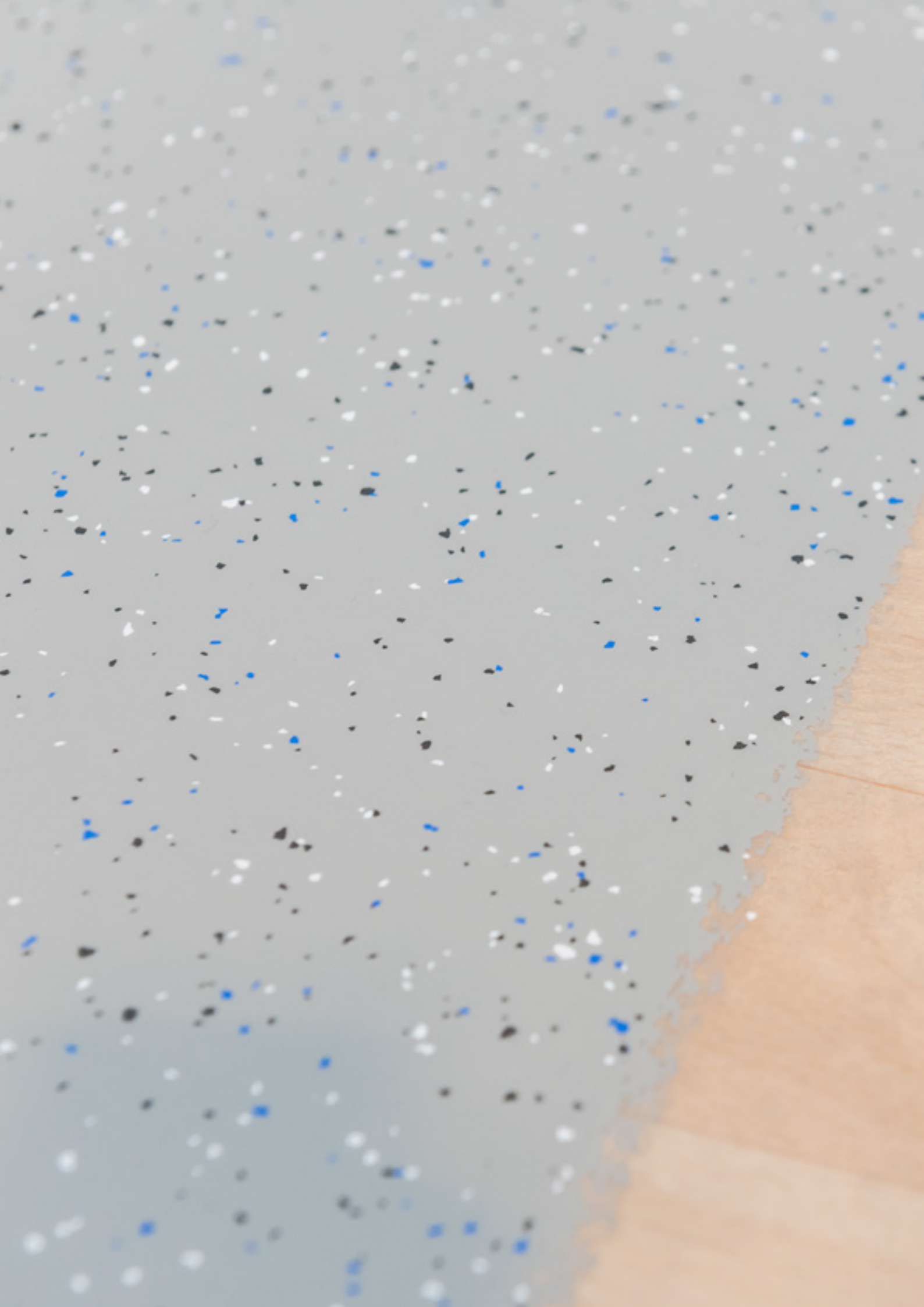


3 Wearing layer with **FLOOR SEALER 300 Antistatic**

2 Sealing layer with **FLOOR SEALER 300 Antistatic**

1 Old flooring with recommended preparation and **KLB copper tape** glued in

Technical data	
Consumption FLOOR SEALER 300 Antistatic	approx. 0.15 - 0.20 kg/m² per layer
Curing time	12 - 16 hours at 20 °C / 68 °F



YOUR ADVANTAGES WITH FLOOR SEALER

- fast and economic renovation of old top floors
- low odour, noise and dust nuisance during refurbishment
- short downtimes until reusability
- easy, user-friendly processing
- upgrading the existing floor in colour and/or appearance
- ecological, solvent-free, low-emission top sealer
- slip-resistance adjustable in accordance with BGR
- suitable for use in foodstuffs according to German Food and Feed Code
- certified as low-emission according to Eurofins "Indoor Air Comfort Gold" and EMICODE® EC1 PLUS

FLOOR SEALER

RENEW INSTEAD OF THROWING AWAY!

The **KLB FLOOR SEALER** range was developed for the economic renovation and upgrading of old, heavily loaded or out-of-date resilient floorings (e.g. PVC, rubber, natural rubber, linoleum and many more). **KLB FLOOR SEALER** enables the visual enhancement of old floor coverings and, compared to conventional coatings, requires only short downtimes until reuse.

The simple, user-friendly application of the low-emission and solvent-free **KLB FLOOR SEALER** systems **ECONOMIC** and **EXCLUSIVE** offer both functional and visual advantages over other floor coverings. The sealing layers of the **ANTISTATIC** system make it possible to extend the useful life of conductive floorings. When applied on non-conductive old coverings, the **ANTISTATIC** coating can be used to create a dissipative floor.

The products and systems are certified with the "Eurofins Indoor Air Comfort Gold" and the EMICODE® EC1 PLUS label as particularly low in emissions and environmentally friendly, which makes them especially suitable for indoor use. The coverings can also be adjusted with slip resistance based on BGR and have food suitability according to the German Food and Feed Code (LFGB).

This installation recommendation deals step by step with the correct preparation and execution of surfaces with **KLB FLOOR SEALER 100 Transparent, KLB FLOOR SEALER 200 Color** and **KLB FLOOR SEALER 300 ANTISTATIC** in combination with the cleaner **KLB FLOOR CLEANER PS 350** for renovations with extremely low dust, noise and odour nuisance.

Separate cleaning and care recommendations are available for cleaning elastic floors. Water-based sealers must only be wet-cleaned at the earliest after 7 days to guarantee the interlayer adhesion at 20 °C / 68 °F. A list of suitable cleaning agents can be requested from KLB Kötztal Lacke + Beschichtungen GmbH.

FLOOR SEALER

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KLB KÖTZTAL Lacke + Beschichtungen GmbH

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