

Economical renovation of elastic subfloors

Sustainable surface renovation using KLB FLOOR SEALER systems





Healthy indoor air – certified as low-emission

Thanks to the EMICODE EC1^{PLUS} label, the FLOOR SEALER-2-K-PU sealants are also particularly suitable for sensitive environments such as nurseries, care homes and hospitals.



A clean execution in the design

Dust, noise and odours are kept to a minimum – this ensures smooth operations and protects both workers and the environment.



Preserve rather than tear out

FLOOR SEALER products extend the service life of existing elastic floor coverings – without the need for disposal or costly replacement. Every additional cycle of use saves raw materials, energy and CO₂. Up to 80 per cent less material and energy is used compared with laying a new floor.



Less downtime – greater predictability

The short closure period of just a few days allows for renovation work to be planned, for example during school holidays, at weekends or in stages whilst operations continue.



Aesthetic and functional enhancement

Old floors are given a modern look. Available with either slip-resistant or conductive properties – depending on your requirements.

Table of contents

1. KLB FLOOR SEALER renovation plan	Page 3
2. A tailored system solution in just a few steps	Page 5
3. Overview of systems and products	Page 6
4. Standard colours for sealing with KLB FLOOR SEALER	Page 9
5. Areas of application	Page 10
6. User overview: planning, implementation and operation	Page 11
7. Guide to substrate preparation	Page 13
8. KLB FLOOR SEALER ECONOMIC	Page 18
9. KLB FLOOR SEALER EXCLUSIVE	Page 20
10. KLB FLOOR SEALER ANTISTATIC	Page 22
11. Cleaning and care - for lasting beauty and functional surfaces	Page 24

RECEIVE INSTEAD OF PULL OUT



1.

KLB FLOOR SEALER renovation plan

What is the KLB FLOOR SEALER renovation concept?

The quality of a floor renovation depends not only on using the right product, but also on a professional assessment of the existing surface, proper preparation and careful execution. This is precisely where the **KLB FLOOR SEALER** system comes into its own.

Instead of removing technically sound but visually outdated elastic floor coverings such as PVC, linoleum or rubber – a process that is both costly and material-intensive – they are retained in the existing structure, renovated and resealed – without the need for stripping, disposal or re-laying. This saves time, money and valuable resources, reduces transport and disposal costs, and at the same time protects both the environment and users.

Anyone who removes an old floor covering often only realises afterwards what lies beneath. Damaged screeds, poorly adhering levelling compounds or complex substrate repairs can quickly turn the originally planned replacement of the floor covering into a comprehensive floor renovation. With **FLOOR SEALER**, the existing floor structure is preserved – ensuring greater planning and cost certainty during the renovation.

Operating sustainably –

Circular thinking rather than the ‘throwaway’ principle

Buildings generate significant CO₂ emissions throughout their entire life cycle – not only during their use, but above all during their construction, demolition and disposal. Any measure that extends the service life of existing building components makes a direct contribution to resource conservation and climate neutrality.

FLOOR SEALER puts this principle into practice: the renovation is carried out with low-emission processes, is solvent-free and produces virtually no dust, noise or odour. This means that surfaces can be modernised even whilst operations are ongoing.

A systematic approach

FLOOR SEALER therefore represents a sustainable, cost-effective and predictable strategy that fits perfectly into modern renovation concepts, as well as DGNB and ESG frameworks.

Planners, architects and decision-makers are provided with a reliable solution to safeguard the value of existing buildings, minimise operational downtime and, at the same time, achieve measurable environmental and economic benefits – **preserving rather than demolishing.**

Areas of application

- Schools and nurseries
- Hospitals and care homes
- Kitchens and catering areas
- Offices, administrative buildings or other premises with high footfall



MODERN,
LOW-EMISSION,
FLEXIBLE

2.

Tailored system solution in just a few steps

From basic cleaning products to sealants

FLOOR SEALER is based on a well-thought-out, practical system that covers every stage of the process, from substrate preparation to the finished surface. Each product forms part of a precisely coordinated process – designed to enhance existing elastic. To renovate surface layers quickly, safely and durably.

The combination of sanding, cleaning, repair and sealing creates durable, low-maintenance surfaces that look better, without the need to remove existing floor coverings. The result is functional, hygienic and aesthetically pleasing floors that can be used for many years to come – sustainable, cost-effective and low-emission.

Procedure for renovation using FLOOR SEALER



1 Cleaning the surfaces
to be coated



2 Repair of defects
and outbreaks



3 Apply the sealant by rolling
it on with a velour roller

3.

Overview of systems and products

FLOOR SEALER combines in a single system the key elements of modern renovation: sustainability, efficiency, safety and design.

FLOOR SEALER is based on a well-thought-out, practical system that covers every stage of the process, from substrate preparation to the finished surface. Each product forms part of a precisely coordinated process – designed to enhance existing elastic to renovate surface layers quickly, safely and durably.

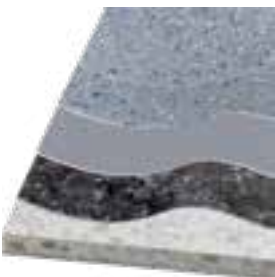
FLOOR SEALER stands for easy-to-implement, system-tested solutions that can be flexibly adapted to different having requirements adapted – whether in administration, healthcare, educational institutions, technology—or communal areas.

Three coordinated system variants enable the perfect choice for every usage scenario:



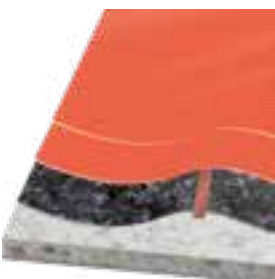
KLB FLOOR SEALER ECONOMIC

- ✓ 2-coat system with coloured primer and top coat
- ✓ plain-coloured finish
- ✓ quick and cost-effective to implement



KLB FLOOR SEALER EXCLUSIVE

- ✓ 3-coat system with two coloured coats and a clear top
- ✓ optionally available with partiColor®-Chips for decorative scattering
- ✓ A surface that is more resistant to dirt thanks to its chip-like structure



KLB FLOOR SEALER antistatic

- ✓ Electrically conductive sealing system
- ✓ 2-layer coloured coating
- ✓ Suitable for conductive top layers or those retrofitted with conductive properties (copper strips required for non-conductive substrates, including earth connection)
- ✓ Improves antistatic properties (without earth connection)



FLOOR SEALER 200 Colour

A coloured, low-emission, environmentally friendly two-component polyurethane-based sealant for the renovation and restoration of surface layers. The sealant is light-stable with a matt finish and offers good stain resistance.

- ✓ high coverage
- ✓ wide colour variety
- ✓ abrasion-resistant
- ✓ low-emission in accordance with **EMICODE® EC1^{PLUS}**
- ✓ light-stable
- ✓ also available in R-10



FLOOR SEALER 100 Clear

A colourless, low-emission and environmentally friendly two-component polyurethane-based sealant for the renovation and restoration of surface layers. The sealant is light-stable, has a matt finish and offers good stain resistance.

- ✓ matt finish
- ✓ abrasion-resistant
- ✓ low-emission in accordance with **EMICODE® EC1^{PLUS}**
- ✓ good stain resistance
- ✓ light-stable
- ✓ also available in R-10



FLOOR SEALER 300 antistatic

A coloured, electrically conductive, low-emission, environmentally friendly two-component polyurethane sealant for the renovation of top floors, offering high adhesion.

- ✓ electrically conductive for explosion protection
- ✓ light-stable
- ✓ abrasion- and wear-resistant
- ✓ low-emission in accordance with **EMICODE® EC1^{PLUS}**
- ✓ matt
- ✓ also available in R-10



FLOOR CLEANER PS 350 Basic Cleaning

Universal basic cleaning agent for preparing elastic floor coverings for renovation using the **KLB FLOOR SEALER systems**. For removing maintenance coatings and stubborn dirt from linoleum, PVC, rubber and rubber-studded floor coverings.

- ✓ good cleaning power
- ✓ high effectiveness
- ✓ low-foaming
- ✓ suitable for universal use



FLOOR SEALER 72 Repair

A fast-curing, paste-like two-component polyester filler for repairing small areas of damage, cracks or indentations in floor coverings prior to sealing with **KLB FLOOR SEALER systems**.

- ✓ fast-curing
- ✓ easy to sand
- ✓ good adhesion
- ✓ easy to use



FRESH COLOURS
FOR FLOOR SEALER

4.

Standard colours for sealing with KLB FLOOR SEALER

For all FLOOR SEALER systems incorporating partiColor®-Chips for scattering

When renovating with **KLB FLOOR SEALER** systems, you have a wide range of attractive standard colours to choose from. Use bold colours to create visual highlights and

subtle colours for a pleasant ambience. Custom colours are also available and can be produced for an additional colour surcharge.



5.

Areas of application

Renovation rather than laying new flooring – the right solution for every property

FLOOR SEALER is suitable for almost all applications involving elastic floor coverings: schools, hospitals, offices, workshops, kitchenettes or multi-purpose halls.

Where cleanliness, durability and cost-effectiveness are required, the system enables existing surfaces to be upgraded in a functional and visually appealing way – quickly, with low-emission operations and sustainably.



Before: Worn linoleum flooring with patches missing



Afterwards: Seamless, coloured PU sealant with decorative chips embedded in it



<https://www.klb-koetzal.de/en/references/offices-and-public-facilities/floor-sealer-floor-renovation-nursery-wiesloch/>

6.

User overview: planning, implementation and operation

A system that brings everything together: in planning, in implementation and in use



Architects & Planners

Extending the service life of existing floor coverings leads to a measurable reduction in overall costs. Renovation improves a building's environmental performance and can be seamlessly integrated into sustainable building concepts in line with DGNB or BNB standards – a key advantage in public tenders and ESG assessments.



Fitters, painters, floor fitters & interior designers

The system is simple and safe to apply – without the need for time-consuming removal or significant dust generation. Short drying times, clear application procedures and carefully coordinated system components enable efficient workflows on site and predictable results.



Building cleaners & maintenance staff

The sealed surfaces are easy to clean, slip-resistant and chemically resistant. Smooth, non-porous surfaces prevent dirt from sticking and make maintenance cleaning easier – ensuring long-lasting hygiene and an attractive appearance.



Local decision-makers and operators

As the process is low-odour and virtually dust-free, the renovation can be carried out whilst the building remains in use. Short downtimes ensure that the building can continue to operate and reduce costs associated with downtime – a key advantage for renovation projects in schools, administrative buildings, and healthcare or care facilities.



Sustainable building concepts in accordance with DGNB and BNB – what does that actually mean?

The DGNB (German Sustainable Building Council) and the BNB (Federal Assessment System for Sustainable Building) are the two most important certification schemes for sustainable buildings in Germany.

They assess structures throughout their entire life cycle – that is, from planning through construction and use right through to demolition or renovation.

FLOOR SEALER supports sustainable building concepts in line with DGNB and BNB standards, because the system:

- existing floor coverings are retained rather than replaced
- uses low-emission, certified products (EMICODE EC1^{PLUS})
- improves the potential for renovation of buildings
- reduces life-cycle costs and
- contributes to improving indoor air quality



Member of
DGNB
Deutsche Gesellschaft für Nachhaltiges Bauen
German Sustainable Building Council

FLOOR SEALER therefore meets several assessment criteria of the DGNB and BNB systems and is ideal for projects planned in accordance with ESG (Environmental | Social | Governance) principles or local authority sustainability guidelines.

7.

Guide to substrate preparation

Suitable substrates and preparation

The FLOOR SEALER system has been specially developed for the renovation and visual enhancement of existing elastic floor coverings – in particular PVC, rubber and linoleum floor coverings that are still technically sound but visually worn.

Before commencing renovation work, the existing floor covering must be clearly identified. Ideally, this should be done by referring to the cleaning and maintenance instructions provided by the floor fitter or the documentation supplied by the flooring manufacturer. If this information is not available, the type of flooring can be determined using suitable testing methods in accordance with generally accepted technical standards.

Flooring identification using the paperclip test

A simple and tried-and-tested method for identifying elastic floor coverings is the so-called paperclip test. **1** In this test, the tip of a bent paperclip is heated **2** and inserted into the flooring at a point that is as inconspicuous as possible **3**. Conclusions about the type of flooring can be drawn from the way it is pierced, the melting pattern and the smell. **4**

Further clues may be provided by the underside of the flooring or any manufacturer's markings present **5**.

A prerequisite for successful renovation is a solid, uniformly bonded surface layer that shows no extensive delamination or excessive damage. Loose, hollow or damaged areas must be removed and properly repaired before work begins. Depending on the nature of the damage, this may involve replacing individual sections of the surface, re-bonding detached areas or repairing adjacent sections of the substrate. Minor spalling, depressions or indentations can be properly filled with **FLOOR SEALER 72 Repair** and then sanded smooth.

The following steps form the basis for a seal that is permanently adhesive and visually uniform.

For all stages of the work, please refer to the current product information, the on-site application conditions and the guidelines regarding the environment, temperature and drying. Only a clean, dry and uniformly matt floor surface will ensure optimum adhesion and the desired renovation result.

Our information is based on our experience and research to date. It is impossible to take every individual case into account in the recommendations provided; therefore, this information is intended merely as a guide. In specific cases, please contact us for detailed advice. We guarantee the impeccable quality of our products. We cannot accept responsibility for the success of the work you carry out, as we have no influence over the application process or the on-site conditions. We recommend that you create test areas in individual cases. This brochure reflects the current state of KLB technology at the time of publication. For all technical enquiries, only the current KLB product information is authoritative. The latest version is available online at www.klb-koetztal.com. In addition, our "General Terms and Conditions" apply.

Flooring identification using the paperclip test



Basic cleaning and surface treatment

As part of the surface preparation, all loose and adhering dirt, care films or old sealing layers must be completely removed. The room should be cleared as far as possible before work begins. Adjoining floor areas, skirting boards, furniture and fixtures should be covered or masked off to protect them from splashes or cleaning agents. Loose, surface-level residues must first be removed by sweeping, vacuuming or wiping to bind dust (e.g. with a non-woven cloth) before the basic cleaning takes place.

The dosage of the basic cleaning product should be set in accordance with the specifications in the table. Please follow the relevant instructions to ensure correct use and a good cleaning result. Underfloor heating systems must be at least Switch off 24 hours before starting work so that the floor reaches room temperature and to prevent the cleaning solution from drying out prematurely.

Procedure

The premixed cleaning solution is spread evenly over the surface and worked in thoroughly using a single-disc machine fitted with a disc brush, a green super pad or the **KLB special cleaning pads P 200 or P 100**. This removes dirt, care films and other residues that reduce adhesion. At the same time, the surface is lightly abraded to create the ideal conditions for the subsequent sealing process.

The surface must be kept sufficiently damp during processing. Depending on the degree of soiling, the cleaning solution should be left to act for approximately 5 to 15 minutes. Appropriate measures must be taken to prevent the cleaning solution from drying out. Edge and corner areas must be treated carefully using a hand pad holder.

Once the treatment is complete, the liquid dirt must be completely extracted using a wet vacuum cleaner. Residues in edge and corner areas must also be thoroughly removed.



Neutralisation and rinsing

Following basic cleaning and mechanical surface treatment, the floor covering must be neutralised with clean water and thoroughly rinsed. This can be carried out using a brush-and-vacuum cleaning machine or, alternatively, with a single-disc machine and a wet vacuum cleaner. Finally, the area must be wiped down in two stages with clean water to ensure that all cleaning agent residues are removed.

Before sealing work begins, the surface must have a neutral pH value of approx. 7–8. This is checked using suitable indicator paper. If the pH value is too high or visible residues are present, the neutralisation and final rinse must be repeated.

Once dry, the entire surface must appear clean, dry and uniformly matt. Glossy patches, particularly at the edges and in corners, must be reworked and, if necessary, cleaned again or mechanically sanded down (e.g. with P120 sandpaper).

The drying time is usually 2 to 4 hours; for linoleum flooring, it can be up to 12 to 24 hours, depending on its condition and absorbency. Ensure adequate ventilation during the drying phase. Any residual water, particularly in recesses, joints or edge areas, must be completely removed.

For heavier soiling or particularly stubborn care films, the more abrasive **KLB Special Cleaning Pad P 50** can be used as an alternative.

For rubber studded surfaces, we recommend a property-specific advice.

Alternative surface preparation: dry grinding

Efficient removal of old protective films and residues

In addition to traditional chemical basic cleaning, surface preparation can also be carried out using a mechanical dry method. This is particularly suitable for removing polymer dispersions, protective coatings and stubborn dirt from elastic floor coverings.

By using suitable grinding pads, such as **Jöst blueStrip** (grit 40 or 80, round or square depending on the degree of soiling), in combination with high-performance orbital sanders or high-performance single-disc machines, excellent and consistent results can be achieved. This process evenly grinds the surface, removes residues and simultaneously mattifies it, thereby creating an optimal base for the subsequent sealing.

Machining should preferably be carried out in a cross-feed pattern at a moderate feed rate. To ensure a uniform grinding finish, care must be taken to ensure that the machine is sufficiently weighted or that the contact pressure is uniform. Edge and detail areas should be reworked separately. If necessary, a second grinding pass may be advisable to even out the surface.

The result is a uniformly matt, clean and adhesive surface, which provides the ideal base for further coating.

Important notes on implementation:

- Grinding produces fine sanding dust. It is therefore essential to use a powerful industrial vacuum cleaner (e.g. one with suitable filter technology). The surface that has been grinded must then be thoroughly vacuumed and, if necessary, wiped down.
- Grinding pads must be checked regularly and cleaned or replaced if they show signs of wear or have become compacted. Substrates that lack sufficient load-bearing capacity, or are loose or uneven, must be repaired beforehand. Not all elastic floor coverings react in the same way – a test area is recommended.

Both procedures are equivalent methods of substrate preparation and can be used depending on the condition of the structure.

- Wet basic cleaning is a tried-and-tested standard procedure.
- Dry grinding offers an efficient, low-emission alternative – particularly where sustainable renovation concepts or chemical-free substrate preparation are required

In practice, it is also possible to combine both methods, and this is often a sensible approach.



Repair of holes, cracks and uneven areas

FLOOR SEALER 72 Repair is a fast-curing, paste-like two-component polyester compound designed to repair small areas of damage, cracks or indentations in floor coverings prior to sealing with **KLB FLOOR SEALER** systems. The substrate beneath the floor covering must be sufficiently load-bearing and provide adequate adhesion.

Following prior preparation of the substrate and the damaged areas, **FLOOR SEALER 72 Repair** is suitable for repairing firmly adhered floor coverings, such as homogeneous and heterogeneous PVC floor coverings and linoleum.

To do this, the bulges in the areas to be repaired are knocked down until flat, grinded down and then filled with **FLOOR SEALER 72 Repair**.

The damaged area is filled with the material using a Japanese trowel or smoothing trowel, allowing for a slight overlap. After a curing time of 15–20 minutes, the excess material is grinded down to a level finish (e.g. using a random-orbit sander with 120-grit sandpaper).

Note:

In the case of elastic floor coverings, it is essential to roughen the damaged surface, including in the recesses, before applying **FLOOR SEALER 72 Repair**, in order to ensure good adhesion.

The surface is then treated with **FLOOR SEALER 200 Color**, with the optional scattering of **KLB-SYSTEM Re-finished using partiColor®-Chips** and **FLOOR SEALER 100 Transparent**. **FLOOR SEALER 300 antistatic** is also suitable. The sealed top layer can withstand mechanical loads again within 24 hours.

For further information, please refer to the latest version of our product information. We recommend seeking advice before using this product on rubber flooring.



Crack in the elastic upper layer



Filling with FLOOR SEALER 72 Repair



Grind the surface after hardening



PROCESSING OF THE SYSTEMS

8.

KLB FLOOR SEALER ECONOMIC as a cost-effective standard solution

Simply applied in two coats

The single-colour **KLB FLOOR SEALER ECONOMIC** system is applied in two sealing coats, thereby offering a cost-effective and time-saving solution for refurbishing flooring in need of renovation.

Application of the base coat

When applying **FLOOR SEALER 200 Color** to rectangular rooms, the coating is usually applied along the short side of the room. The edge areas at the head end should be pre-coated using a brush or a small velour roller, and then worked on in parallel, 'wet-on-wet', as the main surface is coated.

Pillars and other joint areas, as well as tight room layouts, must be painted at the same time. The base coat should only be applied to the extent that a wet edge is always present, allowing the coats to blend into one another. The time window before the rolled edge begins to set is a maximum of 5 to 7 minutes. If this is not adhered to, drying edges and colour variations may become apparent.

Depending on the area size, **FLOOR SEALER 200 Color** should be applied using a 1 mm rubber notched trowel (KLB tool). Immediately afterwards, smooth the surface at a 90° angle to the direction of application using an 8 mm velour roller (KLB tool), and then go over the surface again in a criss-cross pattern using an 8 mm velour roller, covering a width of 50 cm with each pass.

Alternatively, the sealer can be applied using an Orange microfibre roller with a pile height of 16 mm and a roller width of 25 cm. Ensure even application and monitor consumption levels. Organise the application on the surface in such a way that the cross-coating and smoothing can be carried out immediately afterwards. This is done at a 90° angle to the direction of application using a second orange microfibre roller, with a pile height of 6 mm and a roller width of 50 cm. Smoothing and rolling should be carried out immediately after application. The roller should be moved at a steady speed without applying pressure, always in the same direction and, where possible, at right angles to the direction of the light.

When preparing the surface, blunt nail shoes with lens-shaped heads (or alternatively, football boots with wide, smooth studs) to prevent the rubber strip from being pierced and thus avoid punctures.

Application of the top coat

Once the surface has dried sufficiently, a second coat of **FLOOR SEALER 200 Color** is applied using the same method as for the first coat. If further coats are required, they should be applied in the same way.

Please note: If dark existing floor coverings are sealed with a light shade of **FLOOR SEALER 200 Color**, a third coat of sealer may be necessary to achieve full colour coverage. In the case of contrasting colours, we recommend seeking colour advice! This applies in particular to the following shades: beige, yellow, orange and light grey tones.

When supplied as **FLOOR SEALER 200 Color - R10**, the sealer is available as a specialised product with a slip-resistant surface. The sealer has been tested in accordance with DIN 51130 and BGR 181 and has been classified as slip resistance class R10.





KLB FLOOR SEALER 200 Color



Quantity used:

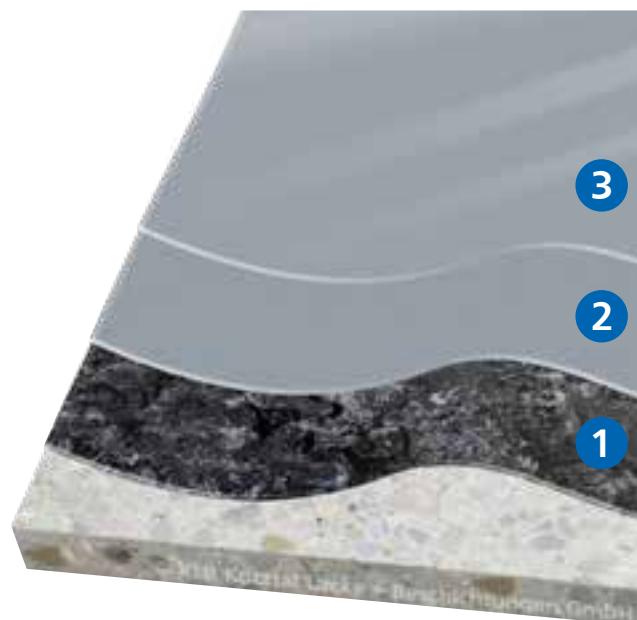
approx. 0.120 – 0.160 kg/m² per coat

Revisability:

4 – 6 hours (at 20 °C), after 48 hours at the latest

Curing time / Walkability:

- 12 – 16 hours (at 20 °C)
- 2 – 3 days until the coating is mechanically resistant at 20 °C; 7 days until it is chemically resistant at 20 °C



System build-up

3. Second sealing coat with **FLOOR SEALER 200 Color**
2. First sealing coat with **FLOOR SEALER 200 Color**
1. Existing flooring with recommended preparation

9.

KLB FLOOR SEALER EXCLUSIVE as a decorative design option

With colour chips that can be scattered in a way that suits individual preferences

The **KLB FLOOR SEALER EXCLUSIVE** system is applied in three sealing coats. Following the coloured base coat – in the same way as for the base coat of **KLB FLOOR SEALER ECONOMIC** – a top coat of the same colour is applied, which can optionally be scattered with **partiColor®-chips No. 1**. The final sealing layer is a transparent top coat and wearing layer.

Decorative colour schemes

To create more visually appealing floor surfaces that are less prone to showing dirt, **partiColor®-Chips No. 1** can be scattered into the second sealing layer during installation (see the **ECONOMIC** system structure for further details).

The colours of the **partiColor®-Chips** can be chosen freely and they must always be scattered loosely (covering no more than 70 per cent of the surface). For surfaces where a higher level of dirt accumulation is expected, chip mixtures with high contrast are particularly suitable. Please note the recommended application rates.

Scattering can be performed either manually or using an application aid such as a compressed-air-powered hopper gun or an autonomous Chiron blower. **partiColor®-Chips No. 1** are scattered or blown on in segments or strips. Care must be taken to ensure that the area around the wet edge is free of **partiColor®-Chips** to prevent them from overlapping later on.

Once the sealant has dried/cured, any excess **partiColor®-Chips** must be removed. Loose chips can be carefully swept away with a broom. If necessary, remove chips that are only loosely attached using a brush, or gently knock them off with a smoothing trowel or scraper. Care must be taken to ensure that the surface is not soiled or damaged when walked on. (We recommend wearing shoe covers).

Transparent top coat

Finally, the surface is dusted again (by vacuuming, sweeping or dry mopping) and the transparent, matt top coat is applied using **FLOOR SEALER 100 Transparent**, following the same procedure as for the previous sealing stages.

This sealing process ensures that the chips are properly bonded and delivers optimum results for subsequent use. **FLOOR SEALER 100 Transparent** improves the wear characteristics of the surfacing and protects the **partiColor®-Chip No.1** from mechanical and chemical stress.

When supplied as **FLOOR SEALER 100 Transparent – R10**, the sealer is available as a specialised product with a slip-resistant surface. The sealer has been tested in accordance with DIN 51130 and BGR 181 and has been classified as slip resistance class R10.





KLB FLOOR SEALER 100 Transparent / 200 Coloured



Coverage: approx. 0.120 – 0.160 kg/m²

Revisability:

4 – 6 hours (at 20 °C), after 48 hours at the latest

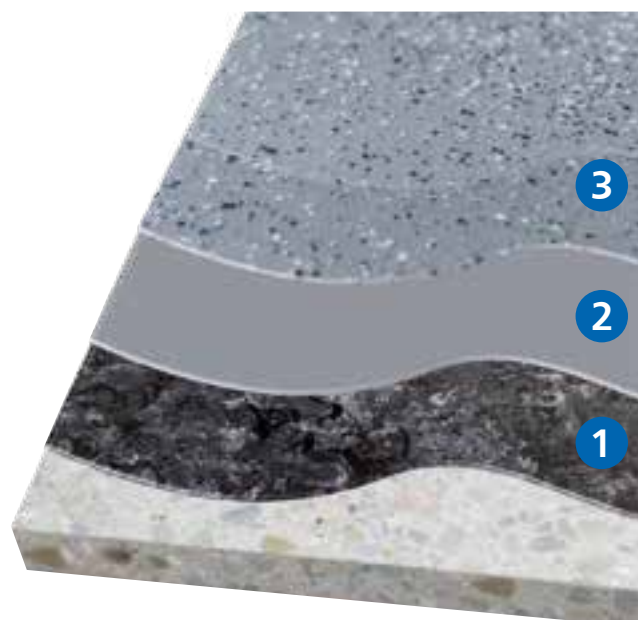
. Curing time/walkability:

- 12 – 16 hours (at 20 °C)
- 2 – 3 days until the coating is mechanically resistant at 20 °C; 7 days until it is chemically resistant at 20 °C

Decorative colour scheme:

Quantity used:

partiColor®-Chips No. 1 with open scattering
approx. 25 – 60 g/m²



System build-up

4. Wearing layer with **FLOOR SEALER 100 Transparent**
3. Second sealing coat using **FLOOR SEALER 200 Color** with optional **partiColor®-Chips No. 1**, scattering whilst the surface is still wet
2. First sealing coat with **FLOOR SEALER 200 Color**
1. Existing flooring with recommended preparation

10.

KLB FLOOR SEALER antistatic as a specialised electrically conductive so-

For use on electrically conductive surface coverings

FLOOR SEALER 300 Antistatic is a low-emission, two-component polyurethane-based sealer. This coloured sealer is used on electrically conductive floor coverings that have lost their visual appeal after a certain period of use. Alternatively, in the event of a change of use, it can be applied to non-conductive surface coverings to make them volumetrically conductive or antistatic.

Decorative colour schemes

In principle, conductive top layers can be sealed with **KLB FLOOR SEALER ANTISTATIC** using a two-colour process, resulting in a single-colour, electrically conductive, matt finish.

If existing non-conductive surface coverings are to be converted into a conductive surface covering, once the substrate has been prepared as described, KLB copper strips must first be bonded into the floor at a depth of approximately 1–2 metres at intervals of 6–8 metres across the intended grid to provide a connection to the earthing point. This is followed by two coats of **FLOOR SEALER 300 antistatic**.

As electrical conductivity depends heavily on the substrate, substrate-related variations in conductivity values may be measured for earth leakage resistance, the 'person-shoe-ground' test and the walking test.

The sealer is applied in the same way as the single-colour **KLB FLOOR SEALER ECONOMIC** system, except that a 2 mm rubber notched trowel (KLB tool) is used here.

Top layer

Once the surface has dried sufficiently, the sealant (**FLOOR SEALER 300 antistatic**) is applied using the same method as for the base coat. If further coats of sealant are required, these are applied in the same way. The underlying despite careful application, **KLB copper strips** will remain slightly visible and do not constitute grounds for a complaint. It is advisable to fit the strips in areas that are not visible, provided the layout of the room allows this.

Note:

When applying a conductive sealant to non-conductive surface layers, care must be taken to check regularly that the sealant layer remains intact, as otherwise conductivity can no longer be guaranteed.

As **FLOOR SEALER 300 Antistatic** - R10, the sealer can be supplied as a specialised product with a slip-resistant surface. The sealer has been tested in accordance with DIN 51130 and BGR 181 and has been awarded the slip-classified as fire resistance class R11.

Earth leakage resistance *:

< 10⁶ ohms in accordance with DIN EN 61340-5-1

Walking test *:

< 100 V in accordance with DIN EN 61340-5-1

Person-Shoe-Floor *:

< 10⁹ ohms in accordance with DIN EN 61340-5-1

* (if the top layer is non-conductive)





KLB FLOOR SEALER 300 Antistatic

Coverage:

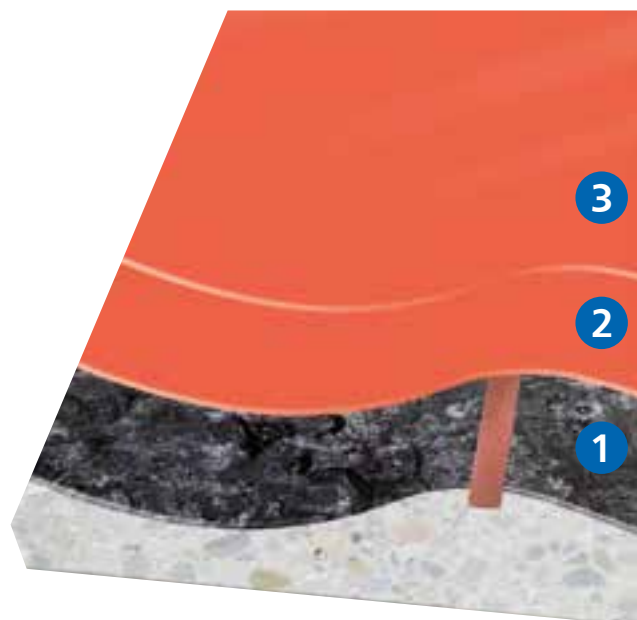
approx. 0.150 – 0.200 kg/m² per coat

Revisability:

4 – 6 hours (at 20 °C), after 48 hours at the latest

Curing time / Walkability:

- 12 – 16 hours (at 20 °C)
- 2 – 3 days until the coating is mechanically resistant at 20 °C; 7 days until it is chemically resistant at 20 °C



System build-up

3. Wearing layer with **FLOOR SEALER 300 Antistatic**
2. Sealing coat with **FLOOR SEALER 300 Antistatic**
1. Existing flooring with recommended preparation and copper tape **KLB-Kuperband** applied

11.

Cleaning and care – for lasting beauty and functional surfaces

A floor is only as good as the care it receives.

To ensure that surfaces treated with FLOOR SEALER retain their functionality, appearance and slip resistance in the long term, regular, professional cleaning is essential. Thanks to the closed, seamless and durable PU sealant, the surfaces are particularly low-maintenance, hygienic and easy to look after – a clear advantage over conventional, high-maintenance elastic floor coverings.

Durable, hygienic, economical

The dense, seamless surface of the **FLOOR SEALER** systems prevents dirt, moisture or cleaning product residues from penetrating. As a result, dirt adheres less readily and can be easily removed.

In many public buildings – such as schools, nurseries, administrative offices or healthcare facilities – the use of **FLOOR SEALER** coatings during renovation can eliminate the need for costly annual basic cleaning and polymer maintenance treatments. This is provided that the surfaces are cleaned regularly as part of maintenance cleaning and kept in good condition. This ensures that the floor remains attractive, hygienic and structurally sound in the long term, whilst significantly reducing maintenance costs.

Maintenance cleaning – simple and safe

For daily or regular cleaning and maintenance, neutral to mildly alkaline cleaners (pH 7–10) without care components are sufficient. Thanks to the robust surface, the surfaces can be cleaned either by machine or by hand – for example, using automatic scrubber dryers or microfibre mop heads.

It is important to choose the right cleaning pads: at most, red super pads or soft brushes, as well as microfibre pads. Abrasive or overly strong alkaline cleaning products should be avoided, as they can cause the surface to lose its shine or impair its slip resistance.

The R10 slip resistance rating is also maintained in the long term provided the floor is cleaned correctly.

Tip:

Using too much cleaning product can lead to residue and uneven shine. Please follow the manufacturer's dosage instructions and always mop up any excess water thoroughly.



Protection and preservation of value

Small measures can help to further extend the service life of the renovated area:

- Felt pads fitted to chair and table legs prevent pressure marks and fine scratches.
- Protective mats placed under swivel chairs (DIN EN 12529, Type W) prevent scuff marks and roller marks.
- Clean run zones in the entrance hall reduce the amount of dirt brought in.
- When rearranging furniture and appliances, they should be lifted rather than dragged across the floor.

Thanks to these simple measures, the floor not only remains visually appealing, but also remains reliable in the long term and easy to clean – a bonus for hygiene, safety and sustainability.

Detailed instructions, dosage recommendations and pad guides can be found in the separate 'KLB cleaning and maintenance recommendation for flooring restored with **FLOOR SEALER**.



<https://www.klb-koetzel.de/app/uploads/2022/11/KLB-cleaning-recommendations-elastic-floor-coverings-sealed-with-FLOOR-SEALER-products-2022-11-EN.pdf>

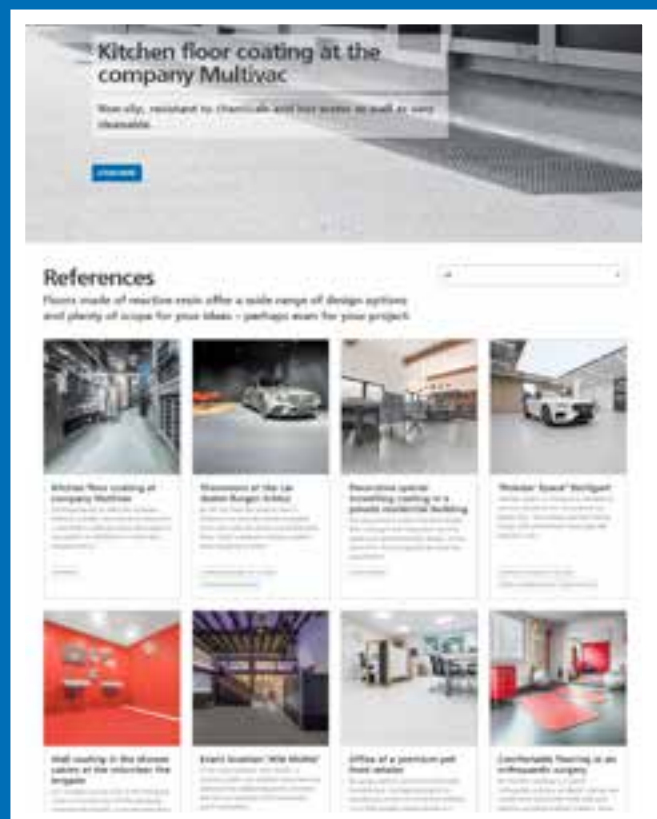


The systematic approach to great flooring

You can find more systems, references and brochures on our website:



www.klb-koetzal.de/en/systemfinder



www.klb-koetzal.de/en/klb-references

Connect with FLOOR SEALER:



FLOOR SEALER

KLB KÖTZTAL Lacke + Beschichtungen GmbH
Günztalstraße 25
89335 Ichenhausen, GERMANY
info@klb-koetzal.com
Phone +49 8223 9692-0
Fax +49 8223 9692-100



Certified
to ISO 9001.



Visit
us online.

