



KLB
KÖTZTAL

Quality without any compromise.



KLB-Coating Systems

for commercially and industrially used flooring

KLB-SYSTEMS at a glance:

Low-emission coatings

POLYURETHAN PU 425 Comfort and PU 430 Silent Comfortable flooring system	4
POLYURETHAN PU 410 Possible colour variations	6
Product group EP 202 For clean areas	8
EPOXID EP 785 HS Vapour-permeable	10
EPOXID EP 785 EL+ Electrically conductive and vapour-permeable	12
EPOXID EP 740 E Economical	14
EPOXID EP 172 Decorative pebble coating	16

Industrial coatings

EPOXID EP 216 Universal Parking garage and industry	18
EPOXID EP 175 Spezial Kitchen flooring	20
EPOXID EP 211 ESD and EP 212 ESD ESD-protection	22
PU-BETON Hot water/wet areas exposed to chemicals	24
EPOXID EP 652 W Wall coating	26
EPOXID EP 280 WHG and EP 282 WHG Prevention of water pollution	28
EPOXID EP 236 Textured coating	30

Industrial coatings – rapid re-usability

POLYURETHAN PU 5000 RX Scattered coating for indoor and outdoor	32
ACRYL AC 313 Scattered coating for the food industry	34
EPOXID EP 216 RAPID Fast solution for industry and car parks	36



On KLB-flooring (almost) everything goes well!

Reactive resin coating systems for commercial and industrial flooring.

You make the demands.
We deliver the adequate coatings.

Flooring has to stand up to quite a bit, especially in the commercially or industrially used area.

The demand is clear: flooring should cover any kind of use.

The floor has to bear up to high mechanical load, e.g. material handling equipment, machines, pallets and much more.

It has to defy chemical agent contamination and withstand increased temperatures.

The floor has to feature good cleanability and meet the hygienic requirements.

It should offer clean room properties especially for the technical and pharmaceutical area.

Last but not least industrial flooring should possess special electrical properties so equipment produced on that flooring can meet its demands.

To cut a long story short: **A good industrial floor varies just like its industry.**

By the way the designed flooring is the business card of any building. The optical impression of the flooring is very important to many building-owners or businessman.

To meet all demands and always generate the optimum result requires varied knowledge about the application and properties of the coating material.

KLB Kötzthal Lacke + Beschichtungen GmbH offers a multitude of suitable and technical versed product systems and is the right contact for you.

To get a general idea we have arranged a small outline of our standard coating systems. Of course, the described systems show only a small partial possibility of our wide range of products.

Please ask for advice to find your individual solution.

All stated information is based on our experience and technical preparation. It is not possible to consider every single case in the listed recommendations, they therefore only have an indicative character. For specific cases we offer a detailed consultation in our Company. 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. This brochure contains the current status of the KLB technology at the time of publication. For all technical questions only the latest KLB product information is valid. The updated version is available on our website www.klb-koetzthal.com. In addition, our "General Terms and Conditions" apply.

Edition 01/2018

For a better indoor air quality!



Very convincing:

- Low-emission according to AgBB, ABG, Class A+ (French standards), EMI-CODE EC 1 PLUS
- External monitoring by Eurofins
- Meets the international requirements for a sustainable construction certification according to DGNB, BREEAM or LEED

The majority of people spend over 80 % of their time inside buildings. It is therefore very important to have a good indoor climate and a healthy air quality.

Volatile Organic Compounds can be enclosed in many different building materials and building products. These compounds are then released and can enrich the room and ambient air. At high concentrations, they may compromise health.

But what are exactly the Volatile Organic Compounds or VOC? The World Health Organisation defines VOCs as "organic compounds" having a boiling point in a range between 50 °C and 260 °C / 122 °F and 500 °F. KLB Kötztal Lacke + Beschichtungen GmbH has thereon reacted and developed a range of products for recreation rooms, which are low-emission and solvent-free.

The European Union and its member States created the "Construction Product Regulation" (CPR), a legal framework for indoor air pollution control.

As since the beginning of 2016 it is not possible anymore to obtain a DIBt®-accreditation for low-emission products, KLB Kötztal Lacke + Beschichtungen GmbH opted for a voluntary external monitoring through the Eurofins Consumer Product Testing GmbH.

This independent external monitoring is carried out annually. Products are classified, certified and provided with the "Indoor Air Comfort"-Label, according to the current requirements.

National and international organizations set certain conditions for the certification of the sustainability of buildings. KLB products that have the "Air Comfort Gold" label, comply with these requirements of an environmentally and resource-efficient construction.

The Eurofins Consumer Product Testing GmbH is a worldwide leading company for the testing VOC-emissions. Its certificates are recognized in various Countries.

You can find further information on:
www.eurofins.com

The resulting advantages are for you the following:

- Even after the expiration of the general technical approvals for low-emission coatings, proof of compliance with emission limit values is available.
- The yearly external monitoring gives you the security of a constant quality at the highest level, complying at the same time with all the legal limit values.
- The "Indoor Air Comfort" product certification demonstrates compliance with all relevant EU requirements for indoor emissions, not only the requirements of AgBB, but also of France, Austria, Belgium and many more countries.
- The "Indoor Air Comfort Gold" certification gives architects and designers the security and the proof of selecting products that meet the requirements for a sustainable construction certification according to DGNB (Germany), LEED (United States) or BREEAM (Great Britain).



- DIBt® (Deutsches Institut für Bautechnik) = German Institute for Structural Engineering
- AgBB (Ausschuss für die gesundheitliche Beurteilung von Baustoffen) = Committee for the evaluation of the impact of building materials on health
- ABG (Anforderungen an bauliche Anlagen bezüglich des Gesundheitsschutzes) = Requirements for buildings and facilities with regard to health protection
- VOC = Volatile Organic Compounds

KLB-SYSTEM POLYURETHAN PU 425 Comfort
KLB-SYSTEM POLYURETHAN PU 430 Silent



But please with comfort!

High-quality, flexible coating system with walking comfort and a good reduction of the foot impact noise in recreation rooms

KLB-SYSTEM POLYURETHAN PU 425 Comfort is a high-quality coating for flexible floors. The combination with the harmonised, soft-elastic coating **KLB-SYSTEM POLYURETHAN PU 430 Silent** results in flooring coverings with high comfort.

The two-layer covering structure significantly improves the ambience and foot impact noise. An improvement up to 11 dB is verifiable. The result is comfortable room acoustics even with high public traffic. The floor covering is protective for joints and comfortable for walking.

KLB-Comfortable floor coverings themselves require no joints, they are smooth and visually appealing. They have no pores and can also be executed in slip resistance grades R9, R10 or R11.

The system is certified according to the Eurofins "Indoor Air Comfort Gold" and falls below the required VOC-values of the

AgBB-evaluation scheme. The system has a DIBt®-certification and can be used in recreation rooms.

The flexible interlayer **KLB-SYSTEM POLYURETHAN PU 430 Silent** can be combined with the photostable 2-component polyurethane coating **KLB-SYSTEM POLYURETHAN PU 410** as well.

Application area

- Commercial areas, offices, hallways, exhibitions, shops
- Physical therapy, fitness and wellness areas, occupational therapy and doctor offices
- Kindergartens, nursing and retirement homes
- Private living areas

Testing: External test certificates are available for the mentioned product system. Please ask for them.

Very convincing:

- certified low-emission according to "Indoor Air Comfort Gold"
- clearly reducing ambient- and foot impact noise
- good walking comfort
- pleasant indoor climate
- joint-friendly walking
- high flexibility and good resilience
- solvent-free



2-c polyurethane matt sealer —————

KLB-SYSTEM POLYURETHAN PU 806 E / PU 806 E - R10
 or **KLB-SYSTEM POLYURETHAN PU 805 E / PU 805 E - R10**

Comfortable coating —————

KLB-SYSTEM POLYURETHAN PU 425 Comfort
 or **PU 410**

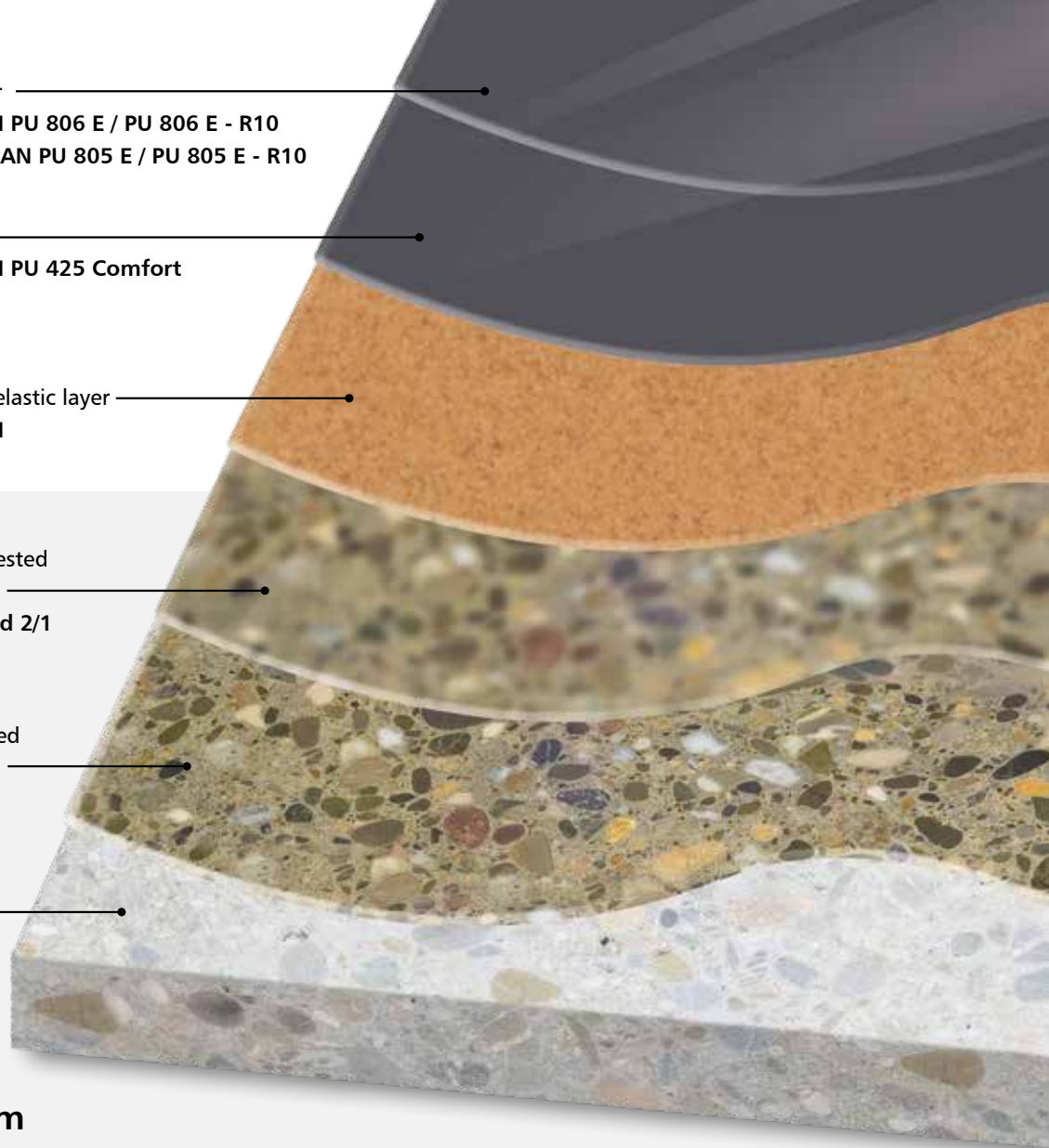
Foot impact noise reducing elastic layer —————

KLB-SYSTEM POLYURETHAN
PU 430 Silent

Scratch coat with the VOC-tested
KLB-SYSTEM EPOXID EP 57 —————
 blended with **KLB-Mischsand 2/1**

Base coat with the VOC-tested
KLB-SYSTEM EPOXID EP 57 —————

Screed CT-C35-F5 —————
 or concrete C20/25



Build-up of system

Layer	In detail see product information
Lamination strength	5 – 7 mm
Sealer	KLB-SYSTEM POLYURETHAN PU 806 E , KLB-SYSTEM POLYURETHAN PU 806 E - R10 or KLB-SYSTEM POLYURETHAN PU 805 E , KLB-SYSTEM POLYURETHAN PU 805 E - R10
Comfort coating	KLB-SYSTEM POLYURETHAN PU 425 Comfort or KLB-SYSTEM POLYURETHAN PU 410
Foot impact noise reducing intermediate layer	KLB-SYSTEM POLYURETHAN PU 430 Silent
Scratch coat	KLB-SYSTEM EPOXID EP 57 blended with KLB-Mischsand 2/1
Base coat	KLB-SYSTEM EPOXID EP 57
Substrate	Requirements to the substrate according to the BEB-worksheets and our detailed base coat instructions or advice by our technicians.

System variant

Layer	In detail see product information
Decorative scattering	Adding partiColor®-Chips and subsequently sealing is suitable for coloured designs. Apply matt sealer finish.
Increasing the slip resistance grade	The product system is producible in slip resistance grade R9, R10 or R11.
Hygienic surface	KLB-SYSTEM POLYURETHAN PU 806 E Clean is treated preventively against bacterial attack. This helps to create permanently hygienic surfaces.

KLB-SYSTEM POLYURETHAN PU 410

For decorative requirements!



High-quality, photostable 2-component polyurethane coating for decorative living- and recreation rooms

KLB-SYSTEM POLYURETHAN PU 410 is a high-quality, self-levelling coating, based on a liquid 2-component polyurethane resin. **KLB-SYSTEM POLYURETHAN PU 410** is suitable for flexible coatings, predominantly for interior areas with impact sound insulation and decorative features.

Unlike to known polyurethane industrial coatings **KLB-SYSTEM POLYURETHAN PU 410** is made from photostable raw materials and is colour-stable. The coating has good self-levelling and smoothing properties and cures with almost no shrinkage. The cured coating shows good flexibility and is crack bridging starting at layers of 2 mm. **KLB-SYSTEM POLYURETHAN PU 410** is suitable for interior areas requiring more flexibility due to the substrate. Increased comfort can be achieved by incorporating a bedding layer. The application of the elastic layer **KLB-SYSTEM POLYURETHAN PU 430 Silent** is recommended.

KLB-SYSTEM POLYURETHAN PU 410 can be produced in many standard colours, even in pale special colours. The coating is very

suitable for partiColor®-Chips scattering. Use always in combination with **KLB-SYSTEM POLYURETHAN PU 805 E** - matt and low-emission sealer.

The system is certified according to the "Eurofins Indoor Air Comfort Gold" and falls below the required VOC-values of the AgBB-evaluation scheme. The system has a DIBt®-certification and can be used in recreation rooms."

Application area

- Especially for decorative living-, recreation and adjoining rooms, like e.g. show-rooms, salesrooms, offices, hospitals, conference and training classrooms, nurseries, schools and many more
- Also suitable for exterior areas – please contact our technical department!

Testing: External test certificates are available for the mentioned product system. Please ask for them.

Very convincing:

- certified low-emission according to "Indoor Air Comfort Gold"
- for especially decorative requirements
- smooth, coloured surfaces
- photostable
- elastic, crack-bridging
- foot impact noise insulation



Low-emission, photostable 2-c matt sealer

KLB-SYSTEM POLYURETHAN PU 805 E
or **KLB-SYSTEM POLYURETHAN PU 805 E - R10**

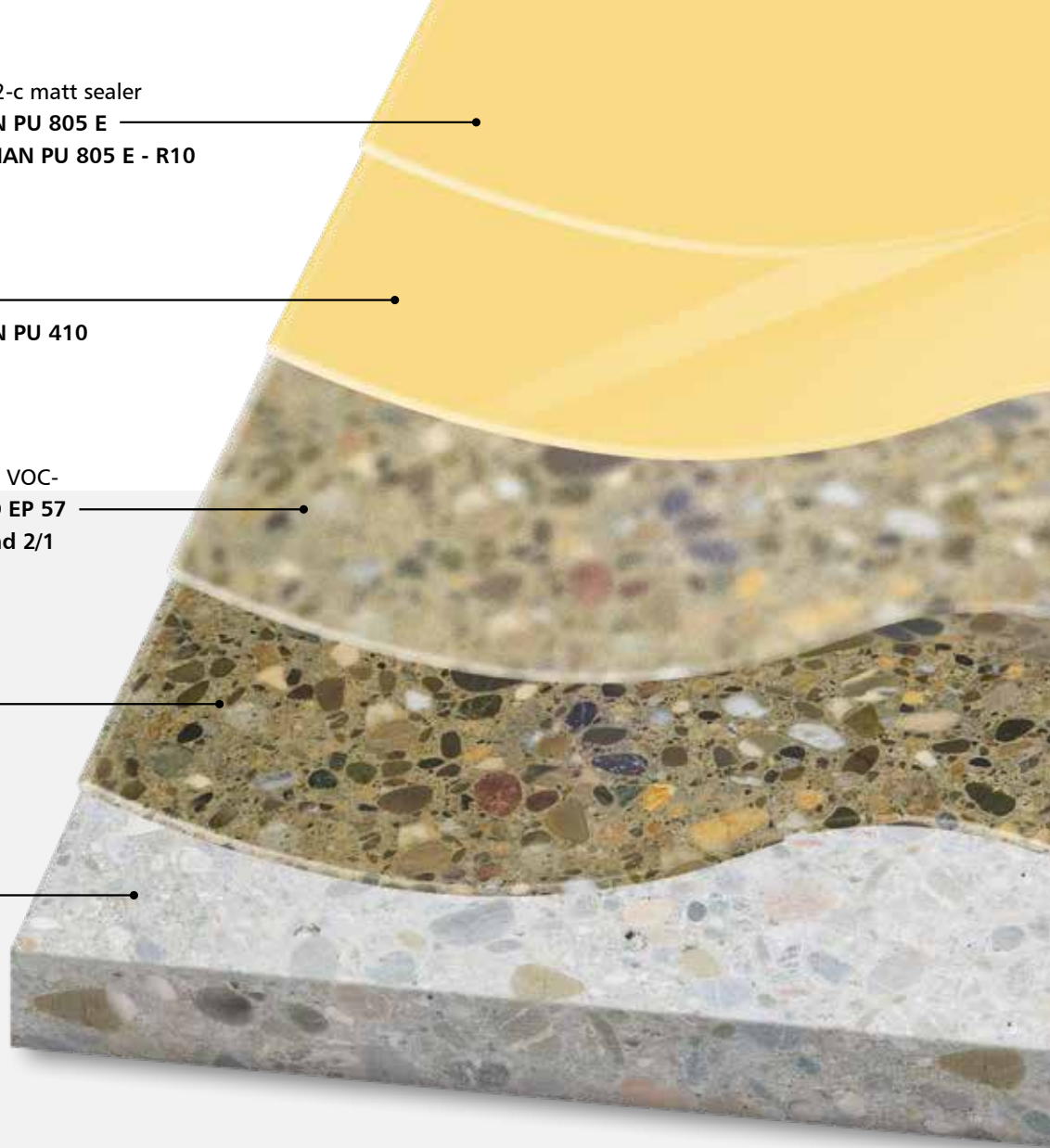
Colour-stable, elastic

2-c polyurethane coating
KLB-SYSTEM POLYURETHAN PU 410

Scratch coat and sealer with VOC-
tested **KLB-SYSTEM EPOXID EP 57**
blended with **KLB-Mischsand 2/1**

Base coat
with VOC-tested
KLB-SYSTEM EPOXID EP 57

Screed **CT-C35-F5**
or concrete **C20/25**



Build-up of system

Layer	In detail see product information
Lamination strength	1 – 2,5 mm
Sealer	KLB-SYSTEM POLYURETHAN PU 805 E or KLB-SYSTEM POLYURETHAN PU 805 E - R10
Coating	KLB-SYSTEM POLYURETHAN PU 410
Scratch coat	KLB-SYSTEM EPOXID EP 57 blended with KLB-Mischsand 2/1
Base coat	KLB-SYSTEM EPOXID EP 57
Substrate	Requirements to the substrate according to the BEB-worksheets and our detailed base coat instructions or advice by our technicians.

System variant

Layer	In detail see product information
Decorative scattering	Adding partiColor®-Chips and subsequently sealing is suitable for the coloured design. Apply a matt sealer finish.
Increasing the slip resistance grade	The product system is producible in slip resistance grade R9, R10 or R11.
Matting	A matt surface can be achieved by additionally sealing with KLB-SYSTEM EPOXID EP 705 E / EP 706 E or KLB-SYSTEM POLYURETHAN PU 805 E / 806 E .
Alternative coatings	Not colour-stable: KLB-SYSTEM POLYURETHAN PU 420 or KLB-SYSTEM POLYURETHAN PU 421

KLB-SYSTEM EPOXID

EP 202, EP 202 Clean, EP 202 EL+, EP 202 Clean EL+

Cleanliness is a must!



Low-emission 2-component epoxy resin coatings for jointless floors with higher hygiene requirements

KLB-SYSTEM EPOXID EP 202

The products belonging to the group **KLB-SYSTEM EPOXID EP 202** are solvent-free and low-emission 2-c epoxy resin coatings, which are used for the construction of hard floors, as well as for antiskid scattered surfaces. The coatings are certified according to the "Indoor Air Comfort Gold". This ensures compliance with the requirements of AgBB, as well as to the regulations of France, Austria, Belgium and many more Countries.

Flooring systems are characterized by an excellent cleaning ability and are preferred in areas with high demands on clean and hygienic surfaces, such as in healthcare. The products have been tested and can be decontaminated with gaseous hydrogen peroxide.

KLB-SYSTEM EPOXID EP 202 Clean

The product **KLB-SYSTEM EPOXID EP 202 Clean** is a good choice in areas where is wished a continuous protection of the coating against bacterial attacks between cleaning cycles. Through the treatment of the coating material, in addition to the preventive protection against bacterial contamination, it is achieved a reduction of bacteria on the surface.

KLB-SYSTEM EPOXID EP 202 EL+

In the pharmaceutical and biochemical industry as well as in hospitals where, in addition to a very good cleanability and ease of decontamination of surfaces, the floor is required to be dissipative as well. Also available in the hygienic setting **KLB-SYSTEM EPOXID EP 202 Clean EL+**.

Application areas

In areas with higher requisites of cleanliness, hygiene, cleanability and ease of decontamination, as e.g.:

- Common- as well as adjoining rooms where people spend time
- Pharmaceutical industry and suppliers
- Biotechnology and biochemistry
- Healthcare (hospitals, doctor's offices etc.)
- Laboratories, clean rooms

Testing: External test certificates are available for the mentioned product system. Please ask for them.

Very convincing:

- certified low-emission according to "Indoor Air Comfort Gold"
- possible the decontamination through hydrogen peroxide fumigation
- jointless and easy to clean
- conductive setting available
- possible with preventive protection against bacterial attack
- adjustable with antiskid
- abrasion-proof
- flame retardant B_{fl}-s1



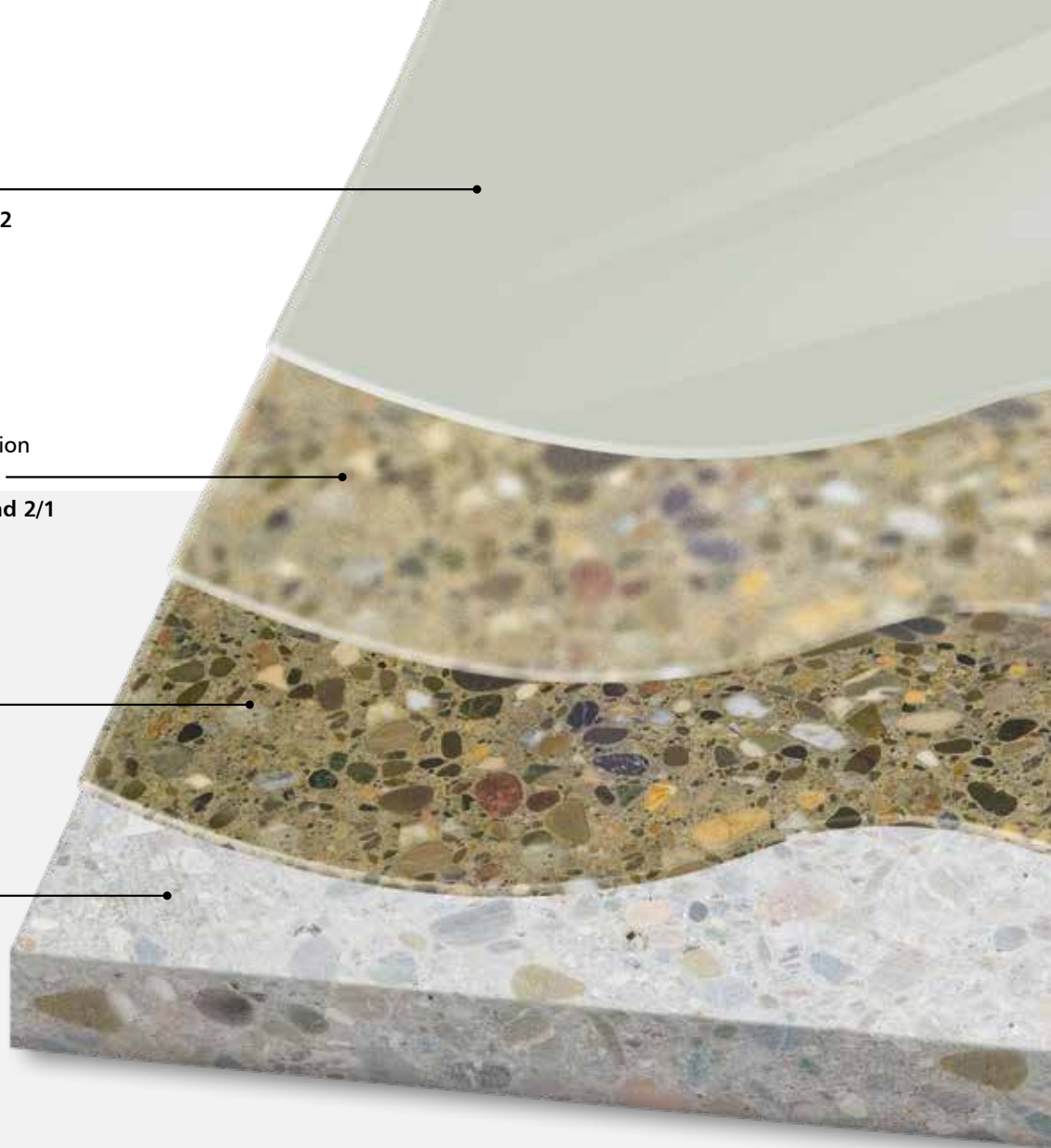
VOC-tested coating —————

KLB-SYSTEM EPOXID EP 202

Scratch coat with low-emission
KLB-SYSTEM EPOXID EP 57 —————
blended with **KLB-Mischsand 2/1**

Base coat with —————
low-emission
KLB-SYSTEM EPOXID EP 57

Screed CT-C35-F5 —————
or concrete C20/25



Build-up of system

Layer	In detail see product information
Coating	KLB-SYSTEM EPOXID EP 202 or KLB-SYSTEM EPOXID EP 202 Clean
Scratch coat	KLB-SYSTEM EPOXID EP 57 blended with KLB-Mischsand 2/1
Base coat	KLB-SYSTEM EPOXID EP 57
Substrate	Requirements to the substrate according to the BEB-worksheets and our detailed base coat instructions or advice by our technicians.

System variant

Layer	In detail see product information
Electrically conductive	KLB-SYSTEM EPOXID EP 202 EL+ or KLB-SYSTEM EPOXID EP 202 Clean EL+ in combination with KLB-SYSTEM EPOXID EP 799 Ableitgrund
Increasing the slip resistance grade	To increase the slip resistance grade, the products KLB-SYSTEM EPOXID EP 202 or KLB-SYSTEM EPOXID EP 202 EL+ can be used together with the Strukturgranulat RQX 9 or RQX 10 .
Matting	The transparent or coloured sealing KLB-SYSTEM POLYURETHAN PU 805 E or PU 806 E is available in many variations, e.g. antiskid: KLB-SYSTEM POLYURETHAN PU 805 E - R10 / PU 806 E - R10 hygienic and antiskid: KLB-SYSTEM POLYURETHAN PU 806 E Clean - R10 resistant to chemicals: KLB-SYSTEM EPOXID EP 860 resistant to chemicals and hygienic: KLB-SYSTEM EPOXID EP 860 Clean

KLB-SYSTEM EPOXID EP 785 HS

Always ready for diffusion!



Low-emission, vapour-permeable 2-component epoxy resin emulsion self-levelling coating

KLB-SYSTEM EPOXID EP 785 HS is a solvent-free, pigmented self-levelling based on a water-emulsified 2-component epoxy resin system with very good self-levelling and smoothing properties.

The special advantage of this system relies on the composition which results in a vapour-permeable film.

The constituent parts are all vapour-permeable. It is especially suitable for reconstruction of magnesia screed, sensitive to humidity as well as for substrates in contact with soil without an adequate sealing.

KLB-SYSTEM EPOXID EP 785 HS results in a smooth, fine non-slip, very appealing, matt surface. The coating is suitable for commercially and industrially used areas with medium load. Usage in wet areas is not recommended.

The system is tested according to „Eurofins Indoor Air Comfort Gold“, and falls below the required VOC-values of the AgBB-evaluation scheme.

Application area

- Commercially and industrially used areas with light to medium load
- Mainly for dry areas
- Reconstruction of magnesia coatings
- For substrates with ascending humidity
- For new buildings with increased humidity in the substrate

Testing: External test certificates are available for the mentioned product system. Please ask for them.

Very convincing:

- vapour-permeable
- for reconstruction of magnesia coatings with substrates in contact with the soil
- low-emission, suitable for recreation rooms
- low odour
- matt, appealing surface
- eco-friendly technology



Low-emission, vapour-permeable emulsion sealer

KLB-SYSTEM EPOXID EP 740 E

Low-emission, vapour-permeable

self-levelling **KLB-SYSTEM EPOXID EP 785 HS**

Scratch coat and coating of shrinkage
cavities with vapour-permeable

KLB-SYSTEM EPOXID EP 782 E

Spachtelgrund

Base coat with vapour-permeable

KLB-SYSTEM EPOXID EP 727 E

Screed CT-C35-F5,

concrete C20/25 or

magnesia screed MA-C25-F7

Build-up of system

Layer	In detail see product information	
	Smooth coating	Scattered (slip resistant) R11
Lamination strength	1,5 – 2,5 mm	2 – 4 mm
Sealer	KLB-SYSTEM EPOXID EP 740 E , alternative: EP 706 E or maintenance sealer PS 88	1. Layer: KLB-SYSTEM EPOXID EP 785 HS 2. Layer: KLB-SYSTEM EPOXID EP 740 E
Coating	KLB-SYSTEM EPOXID EP 785 HS	
Primary layer and scattering		KLB-SYSTEM EPOXID EP 785 HS primary layer completely scattered with quartz sand 0.3/0.8 mm
Scratch coat	KLB-SYSTEM EPOXID EP 782 E Spachtelgrund	Optional for increased depth of roughness
Base coat	KLB-SYSTEM EPOXID EP 727 E	KLB-SYSTEM EPOXID EP 727 E
Substrate	Requirements to the substrate according to the BEB-worksheets and our detailed base coat instructions or advice by our technicians.	

System variant

Layer	In detail see product information
Decorative scattering	Adding partiColor®-Chips and subsequently sealing is suitable for the coloured design. Apply a matt sealer finish.
Increasing the slip resistance grade	To slightly increase the slip resistance grade add RHX-Strukturzusatz to the sealing.
Glossy maintenance	KLB-SYSTEM Industriebodenpflege PS 88
Matting	A matt surface can be achieved by additionally sealing with KLB-SYSTEM EPOXID EP 705 E / EP 706 E . All mentioned sealers are also available with the slip resistance grade R10.
Alternative coatings	Economic sealer: apply KLB-SYSTEM EPOXID EP 740 E twice Electrically conductive: KLB-SYSTEM EPOXID EP 785 EL+

KLB-SYSTEM EPOXID EP 785 EL+



Electrically conductive but still vapour-permeable!

Electrically conductive, vapour-permeable 2-component epoxy resin self-levelling coating

KLB-SYSTEM EPOXID EP 785 EL+ is a solvent-free, pigmented self-levelling coating based on a water emulsified 2-component epoxy resin system with very good self-levelling and smoothing properties.

KLB-SYSTEM EPOXID EP 785 EL+ is certified low-emission according to "Eurofins Indoor Air Comfort Gold". The coating system falls below the low-emission requirements of the AgBB-evaluation scheme and can be used in recreation rooms.

The particular advantage of this coating system is the special composition which results in a vapour-permeable coating. The parts are all steam-permeable and especially suitable for magnesia screed. Also suitable for substrates in contact with soil without an adequate sealing.

With the sealer **KLB-SYSTEM EPOXID EP 790 EL+** the electrically conductive values required for ESD-coatings are met. Furthermore, the system can be used in areas

exposed to explosion hazards. The sealer results in a semi matt, fine grained and optically attractive surface.

The coating is suitable for commercially and industrially used areas with medium mechanical load with requirements to conductivity. Not recommended for wet areas.

Application area

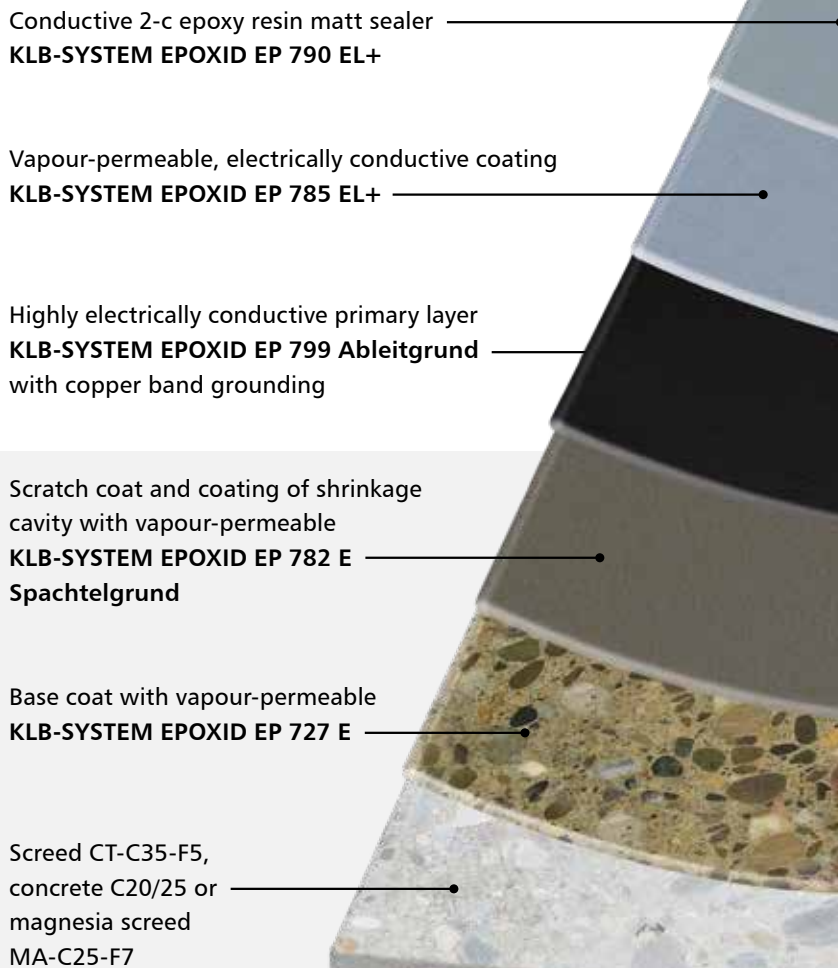
- Commercially and industrially used coatings with demands to electrical conductivity with light to medium load
- Mainly for dry interior areas
- Reconstruction of magnesia coatings
- For substrates with ascending humidity
- For new coatings with increased humidity

Testing: External test certificates are available for the mentioned product system. Please ask for them.

Very convincing:

- vapour-permeable
- electrically conductive
- for reconstruction of magnesia substrate with substrates in contact with the soil
- low-emission, suitable for recreation rooms
- low odour
- matt, appealing surface
- eco-friendly technology





Build-up of system

Layer	In detail see product information
	Smooth coating
Lamination strength	1,5 – 2,5 mm
Sealer	KLB-SYSTEM EPOXID EP 790 EL+ with optional maintenance sealer PS 90
Coating	KLB-SYSTEM EPOXID EP 785 EL+
Conductive coat and grounding	Install grounding system with copper bands on 1 - 2 spots for each 100 m ² . Apply the conductive coat KLB-SYSTEM EPOXID EP 799 Ableitgrund
Scratch coat	KLB-SYSTEM EPOXID EP 782 E Spachtelgrund
Base coat	KLB-SYSTEM EPOXID EP 727 E
Substrate	Requirements to the substrate according to the BEB-worksheets and our detailed base coat instructions or advice by our technicians.

System variant

Layer	In detail see product information
Increasing the slip resistance grade	To increase slightly the slip resistance grade to R9 or R10, it is possible to scatter the KLB-Strukturgranulat RQX 9 or RQX 10 .
Alternative coatings	Steam-tight: KLB-SYSTEM EPOXID EP 202 EL+ or KLB-SYSTEM EPOXID EP 211 ESD Elastic: KLB-SYSTEM POLYURETHAN PU 413 EL+ For WHG-requirements: KLB-SYSTEM EPOXID EP 280 WHG Resistant to chemicals: KLB-SYSTEM EPOXID EP 285 EL+

Seek advice for requirements to explosion protection!

KLB-SYSTEM EPOXID EP 740 E

The "economic" solution!



Pigmented, low-emission 2-component epoxy resin sealer

KLB-SYSTEM EPOXID EP 740 E is a 2-component, water-emulsified, pigmented epoxy resin sealer for thin coatings.

The system is certified according to the "Eurofins Indoor Air Comfort Gold" and falls below the required VOC-values of the AgBB-evaluation scheme. The system has a DIBt®-certification and can be used in recreation rooms.

KLB-SYSTEM EPOXID EP 740 E is mainly used as a sealer on concrete, cement screed, magnesia and mastic asphalt, as well as for reconstructing already existing surfaces. The material is easy to apply with a roller and is pleasant to work with and eco-friendly due to its consistency. Applied in 2 – 3 layers a durable and optically appealing floor sealer is achieved. The material cures by drying and chemically cross-linking to a sturdy and robust film with good adhesion.

KLB-SYSTEM EPOXID EP 740 E is low-emission and results in a energy-elastic, almost abrasion resistant film. Physiologically harmless with good resistance to aqueous solutions, diluted acids and bases as well as to engine and fuel oil. The vapour-permeability allows the sealing of substrates which are sensitive to water and which have an increased humidity.

Very good economic results can be achieved in combination with **KLB-SYSTEM EPOXID EP 727 E**, which offers good adhesion on different, even old substrates.

Application area

- All surfaces with light load, e.g. pedestrians and light traffic, for interior and exterior areas
- Especially for recreational rooms and adjoining rooms where people spend time
- For commercially and industrially used areas like e.g. production areas, laboratories, stockage areas and so on
- Secondary rooms for technical equipment, basements, storage rooms and so on

Testing: External test certificates are available for the mentioned product system. Please ask for them.

Very convincing:

- very good coverage
- pleasant to work with
- results in appealing surfaces
- excellent adhesion
- uniform appearance
- vapour-permeable
- low odour
- eco-friendly technology

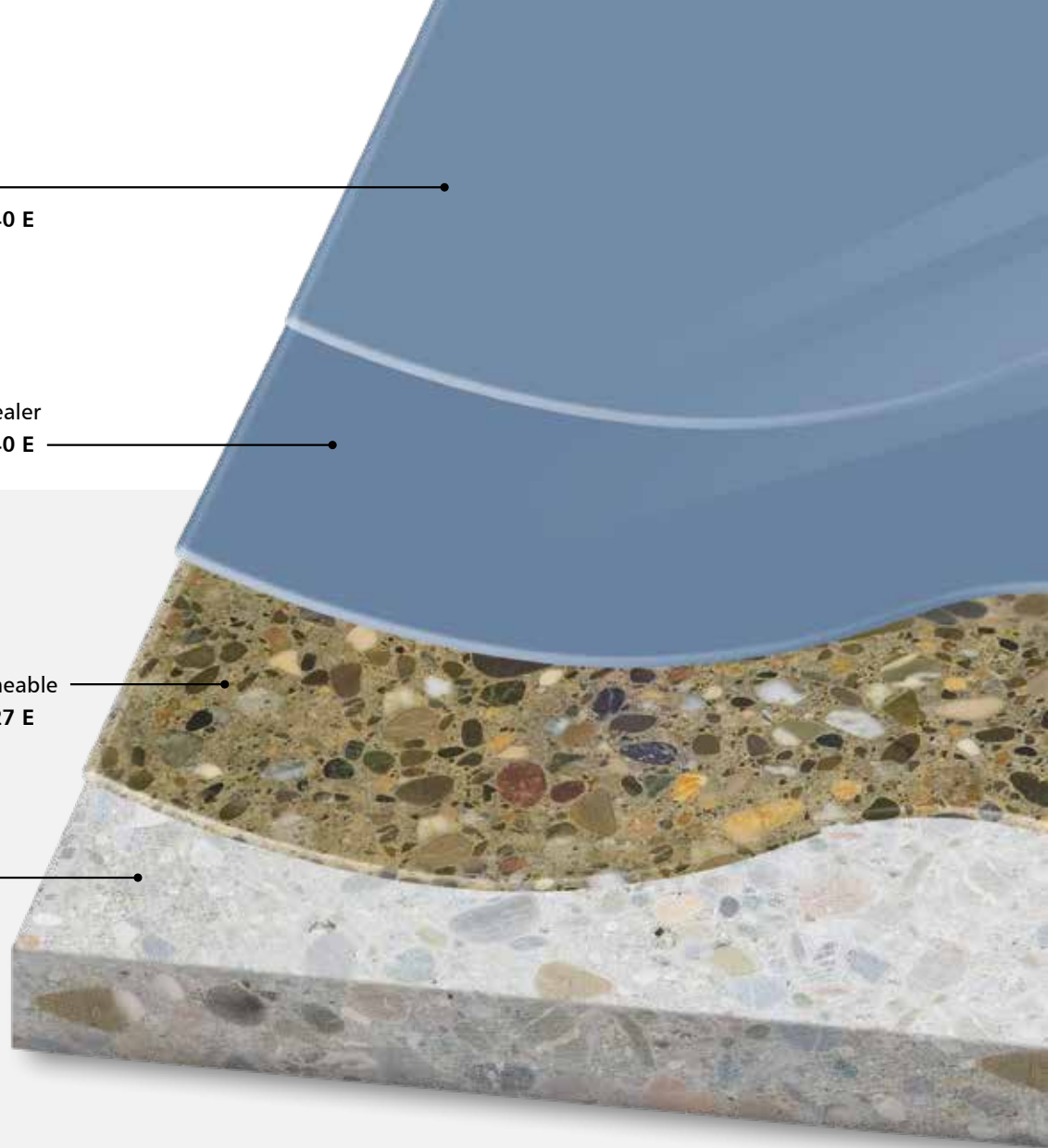


Second application with
KLB-SYSTEM EPOXID EP 740 E

2-component epoxy resin sealer
KLB-SYSTEM EPOXID EP 740 E

Base coat with vapour-permeable
KLB-SYSTEM EPOXID EP 727 E

Screed CT-C35-F5
or concrete C20/25



Build-up of system

Layer	In detail see product information
Lamination strength	0,5 – 1,0 mm
Sealer	Apply KLB-SYSTEM EPOXID EP 740 E twice
Scratch coat (optional)	KLB-SYSTEM EPOXID EP 782 E Spachtelgrund
Base coat	KLB-SYSTEM EPOXID EP 727 E
Substrate	Requirements to the substrate according to the BEB-worksheets and our detailed base coat instructions or advice by our technicians.

System variant

Layer	In detail see product information
Decorative scattering	Adding partiColor®-Chips (size 1 mm) and subsequently sealing is suitable for a coloured design. Apply a matt sealer finish, e.g. KLB-SYSTEM EPOXID EP 705 E.
Increasing the slip resistance grade	To slightly increase the slip resistance grade add RHX-Strukturzusatz.
Alternative coatings	Standard: KLB-SYSTEM EPOXID EP 213 or KLB-SYSTEM EPOXID EP 220 Elastic: KLB-SYSTEM POLYURETHAN PU 420 or KLB-SYSTEM POLYURETHAN PU 421 Thin-coated, conductive: KLB-SYSTEM EPOXID EP 233 EL+ Thin-coated, textured: KLB-SYSTEM EPOXID EP 236

KLB-SYSTEM EPOXID EP 172

A small stone grows quite big!



Decorative quartz pebble coatings for interior and exterior areas

Quartz pebble coatings are decorative coatings combining natural, coloured quartz or marble granulates with high-quality binding agents of KLB.

The newly formulated 2-component epoxy resin **KLB-SYSTEM EPOXID EP 172** is low in solvents and emission and can be used as a binding agent.

KLB-SYSTEM EPOXID EP 172 results in a glossy surface and shows only slight yellowing. That's why it is especially suitable for all decorative and coloured sand coatings.

Due to the innovative composition of its binding agent, the VOC-requirements for lounges in particular are met in accordance with the legal regulations. The system is extremely low in emissions, and complies with national and various international requirements for VOC-values. The system is certified according to "Eurofins Indoor Air Comfort Gold".

The coatings can perfectly be combined with other materials like wood or stainless steel. Company logos and letterings can be integrated without any problems. Offers unique floors with individual design. **Decorative quartz pebble coatings** can be used for interior and exterior areas.

Application area

- Balconies and patios
- Salesrooms
- Showrooms
- Entrance halls
- Living rooms
- and many more

Testing: External test certificates are available for the mentioned product system. Please ask for them.

Colour variations



Very convincing:

- jointless
- variety of design
- very appealing appearance
- available in many colours
- suitable for underfloor heating
- convenient for barefoot walking

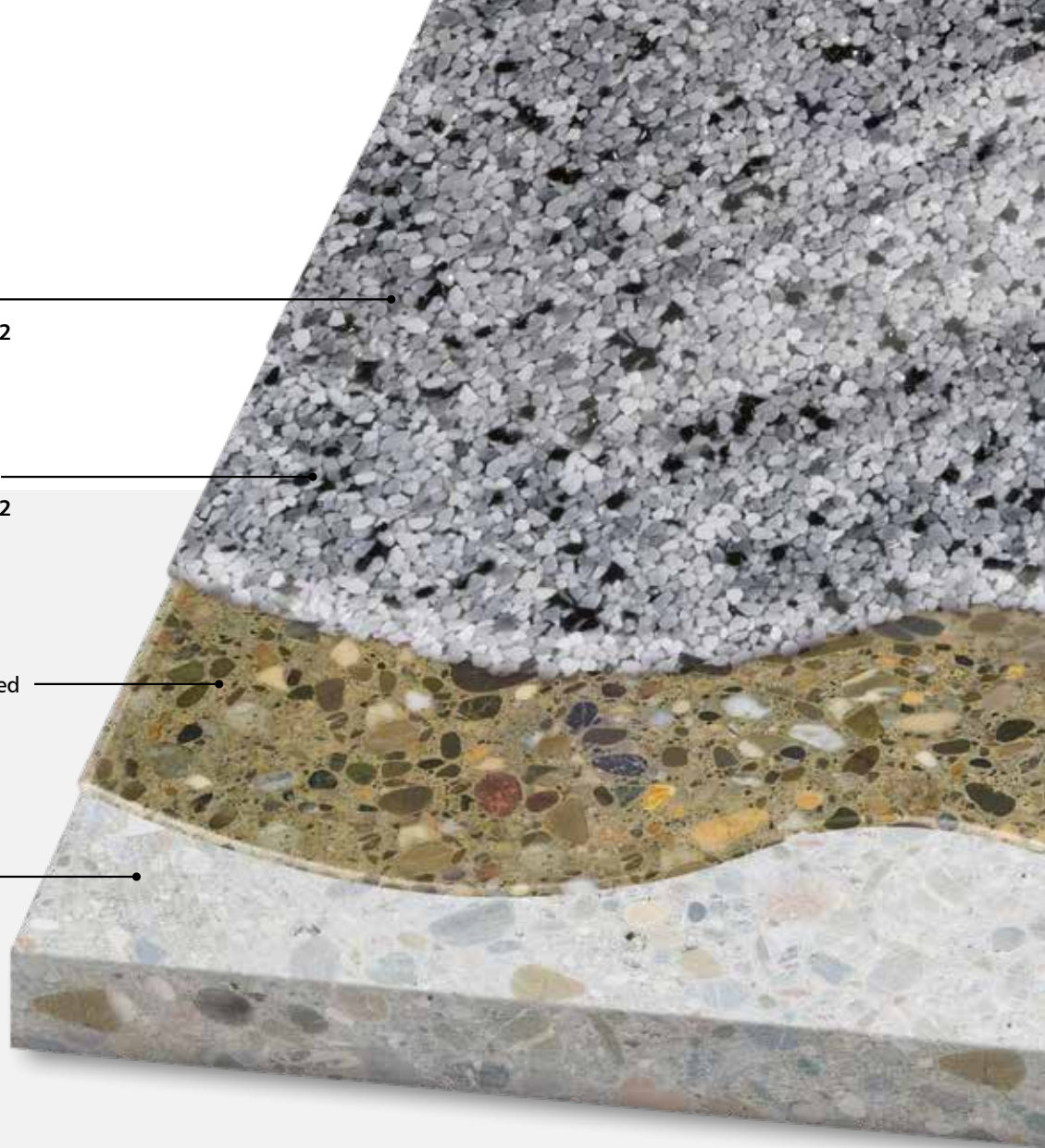


Non-pigmented top sealer —————
KLB-SYSTEM EPOXID EP 172

Decorative pebble coating
 made of transparent sealer —————
KLB-SYSTEM EPOXID EP 172
 and marble pebbles

Base coat with the VOC-tested —————
KLB-SYSTEM EPOXID EP 57

Screed CT-C35-F5 —————
 or concrete C20/25



Build-up of system

Layer	In detail see product information
Lamination strength	5 – 10 mm
Top sealer (optional)	KLB-SYSTEM EPOXID EP 172
Coating	Different sized quartz pebbles, usually 2/3 mm, 3/4 mm or 4/6 mm bound with KLB-SYSTEM EPOXID EP 172 . Resinate coatings with increased load
Scratch coat (optional)	KLB-SYSTEM EPOXID EP 57 blended with KLB-Mischsand 2/1
Base coat	KLB-SYSTEM EPOXID EP 57 scattered with grain size 1/2 mm
Substrate	Requirements to the substrate according to the BEB-worksheets and our detailed base coat instructions or advice by our technicians.

System variant

Layer	In detail see product information
Exterior coatings	Bonded with KLB-SYSTEM POLYURETHAN PU 9010 Flex or KLB-SYSTEM POLYURETHAN PU 9030 Flex , if necessary seal again.

KLB-SYSTEM EPOXID EP 216 Universal



All-purpose for parking garage and industry!

2-component epoxy resin coating and top sealer in one system tested according to OS 8

KLB-SYSTEM EPOXID EP 216 Universal is a solvent-free, pigmented 2-component epoxy resin coating for hard industrial floor covering.

KLB-SYSTEM EPOXID EP 216 Universal is high-quality adjusted with excellent covering power. Due to its low viscosity the product is suitable for rolled coatings as well as a top sealer for scattered, slip resistant coatings. The material is suitable for smooth coatings in layers of 1 – 4 mm. The coating material has good processing-, self-levelling and smoothing properties.

KLB-SYSTEM EPOXID EP 216 Universal has well balanced properties and may be used universally. Stockage may be reduced because the product is multi-purpose and has a wide range of application possibilities. The coating is very resistant to mechanical load and different chemicals.

Application area

- High-quality coating for all commercially and industrially used areas like production areas, assembly halls, stockage rooms, repair shops etc.
- Tested according to OS 8 for slip resistant coatings for interior areas, garages and so on

Testing: External test certificates are available for the mentioned product system. Please ask for them.

Very convincing:

- all-purpose
- good self-levelling properties
- coloured, glossy surfaces
- resistant to water and chemicals
- only slightly yellowing
- tested according to OS 8
- reduced stock



All-purpose coating

KLB-SYSTEM EPOXID EP 216 Universal

Scratch coat with the all-purpose

KLB-SYSTEM EPOXID EP 50

blended with **KLB-Mischsand 2/1**

Base coat with the all-purpose

KLB-SYSTEM EPOXID EP 50

Screed CT-C35-F5

or concrete C20/25

Build-up of system

Layer	In detail see product information	
	Smooth coating	OS 8-coating (slip resistant)
Lamination strength	1 – 4 mm	2 – 4 mm
Coating	KLB-SYSTEM EPOXID EP 216 Universal	KLB-SYSTEM EPOXID EP 216 Universal as top sealer
Primary layer		KLB-SYSTEM EPOXID EP 216 Universal scattered with quartz sand 0.3/0.8 mm
Scratch coat	KLB-SYSTEM EPOXID EP 50 blended with KLB-Mischsand 2/1	Optional for increased depth of roughness
Base coat	KLB-SYSTEM EPOXID EP 50	KLB-SYSTEM EPOXID EP 50
Substrate	Requirements to the substrate according to the BEB-worksheets and our detailed base coat instructions or advice by our technicians.	

System variant

Layer	In detail see product information
Decorative scattering	Adding partiColor®-Chips and subsequently sealing is suitable for the coloured design. Apply a matt sealer finish.
Increasing the slip resistance grade	The product system is producible in slip resistance grade R9, R10 or R11.
Matting	A matt surface can be achieved by additionally sealing with KLB-SYSTEM EPOXID EP 705 E / EP 706 E or KLB-SYSTEM POLYURETHAN PU 805 E / 806 E . All mentioned sealers are also available in slip resistance grade R10.
Alternative coatings	Standard: KLB-SYSTEM EPOXID EP 213 oder KLB-SYSTEM EPOXID EP 220 Low-emission: KLB-SYSTEM EPOXID EP 202 Elastic: KLB-SYSTEM POLYURETHAN PU 420 or KLB-SYSTEM POLYURETHAN PU 421 Photostable: KLB-SYSTEM POLYURETHAN PU 410

KLB-SYSTEM EPOXID EP 175 Spezial

Granted – nothing "slides" away – the epoxy resin kitchen floor!

Photostable, scattered with coloured sand and decorative coating for wet areas

For a jointless, scattered coating the demand to slip resistance and hygiene are most important. The coating consists of several layers: base coat, primary coat, scattered coat with coloured and special sand as well as two transparent sealing coats with **KLB-SYSTEM EPOXID EP 175 Spezial** and a chemical resistant matt sealer **KLB-SYSTEM EPOXID EP 860**.

KLB-SYSTEM EPOXID EP 860 Clean is a 2-component resin sealer preventively treated against bacterial attack. This helps to create permanently hygienic surfaces, even between the necessary cleaning and disinfection cycles.

KLB-SYSTEM EPOXID EP 175 Spezial is a high-quality, solvent-free 2-component epoxy resin for a transparent sealing of decorative scattered coatings and decorative mortar coatings.

The flooring shows an even appealing appearance. Usage in areas with demands to

increased mechanical load and chemical resistance is possible because the material is epoxy resin based. The slip resistance of the surface can be adjusted according to the requirements of BGR 181. The coating is hygienic, very well cleanable and resistant to water and many chemicals.

For areas with an increased exposure to "hot" water and other "hot" substances we recommend to use **KLB-SYSTEM PU-BETON**.

Application area

- Industrial kitchens
- Butcheries and abbatoirs
- Fishing- and food processing industries
- Beverage-, vinification industry and other areas exposed to water

Testing: External test certificates are available for the mentioned product system. Please ask for them.

Colour variations



A wide variety in colours is possible due to coloured sand scattering. Light pale-coloured mixtures are beneficial. A small ratio of dark grain is recommended.

Very convincing:

- especially suitable for wet areas
- slip resistant (R11 – R12)
- jointless
- hygienic
- resistant to water and chemicals
- appealing appearance
- approved technology



2-c epoxy resin matt sealer **KLB-SYSTEM EPOXID EP 860** or **KLB-SYSTEM EPOXID EP 860 Clean**

Transparent decorative sealing resin **KLB-SYSTEM EPOXID EP 175 Spezial**

Self-levelling 2-c epoxy resin coating **KLB-SYSTEM EPOXID EP 216 Universal** scattered completely with coloured quartz sand

2. layer of **KLB-SYSTEM POLYURETHAN PU 426** scattered completely with quartz sand

Self-levelling 2-c polyurethane sealer **KLB-SYSTEM POLYURETHAN PU 426**

Scratch coat with all-purpose **KLB-SYSTEM EPOXID EP 50** blended with **KLB-Mischsand 2/1**

Base coat with all-purpose **KLB-SYSTEM EPOXID EP 50**

Screed **CT-C35-F5** or concrete **C20/25**

Build-up of system

Layer	In detail see product information	
Anti-slip grade according to BGR 181	R11 – V4	R12 – V6
Lamination strength	3 – 5 mm	4 – 6 mm
Chemical resistant sealer (optional)	KLB-SYSTEM EPOXID EP 860 or KLB-SYSTEM EPOXID EP 860 Clean	
Top sealer	KLB-SYSTEM EPOXID EP 175 Spezial , consumption depending on the slip resistance grade	
Scattering	Coloured sand blend, grain size 0.3/0.8 mm	Coloured sand blend, grain size 0.7/1.2 mm
Primary layer	KLB-SYSTEM EPOXID EP 216 Universal , alternative: EP 213 or EP 99	
Sealing	KLB-SYSTEM POLYURETHAN PU 426 scattered completely with Quarzsand 0,3/0,8 mm	
Sealing	KLB-SYSTEM POLYURETHAN PU 426	
Scratch coat	For depth of roughness a scratch coat with KLB-SYSTEM EPOXID EP 50 blended with KLB-Mischsand 2/1 is recommended.	
Base coat	KLB-SYSTEM EPOXID EP 50 , alternative: EP 30 or EP 52 Spezialgrund depending on the substrate requirements	
Substrate	Requirements to the substrate according to the BEB-worksheets and our detailed base coat instructions or advice by our technicians.	

KLB-SYSTEM EPOXID EP 211 ESD

KLB-SYSTEM EPOXID EP 212 ESD

That's why the spark won't jump – electrically conductive flooring!

Homogeneous conductive 2-component epoxy resin coating for increased requirements to ESD-areas and transition resistance

KLB-SYSTEM EPOXID EP 211 ESD and **KLB-SYSTEM EPOXID EP 212 ESD** are electrically conductive, coloured coatings based on a 2-component epoxy resin for industrial areas.

Beside its good attributes of a jointless and abrasion resistant epoxy resin coating, the coating is electrically conductive. It is especially suitable for the increased demands to ESD-protection. Especially suitable for assembly- and testing-rooms, manufacturing, testing or handling electrical parts.

KLB-SYSTEM EPOXID EP 211 ESD and **KLB-SYSTEM EPOXID EP 212 ESD** provide the latest adjusted conductive technology. The material is conductive, to a large extent independent of thickness of layers and can be produced in pale colours.

KLB-SYSTEM EPOXID EP 211 ESD and **KLB-SYSTEM EPOXID EP 212 ESD** provide a very good resistance to mechanical load and to chemicals. They are stable to oil, grease, water, salt-solutions and different acids and bases.

KLB-SYSTEM EPOXID EP 211 ESD and **KLB-SYSTEM EPOXID EP 212 ESD** are suitable for slip resistant, scattered coatings. Even at an air humidity below 20 % the electric resistance value of **KLB-SYSTEM EPOXID EP 212 ESD** persists.

Application area

- For areas of electronics and electrical engineering with requirements to ESD like e.g. test rooms, laboratories, assembly halls, stockage areas and many more

Testing: External test certificates are available for the mentioned product system. Please ask for them.

Very convincing:

- for increased demand for ESD-protection
- complies with demand Human-Shoe-Floor
- complies with Walking-Test
- EP 211 ESD meets the transition resistance according to VDE 0100-600 (2017)
- pale, coloured surfaces
- energy-elastic and abrasion resistant
- jointless



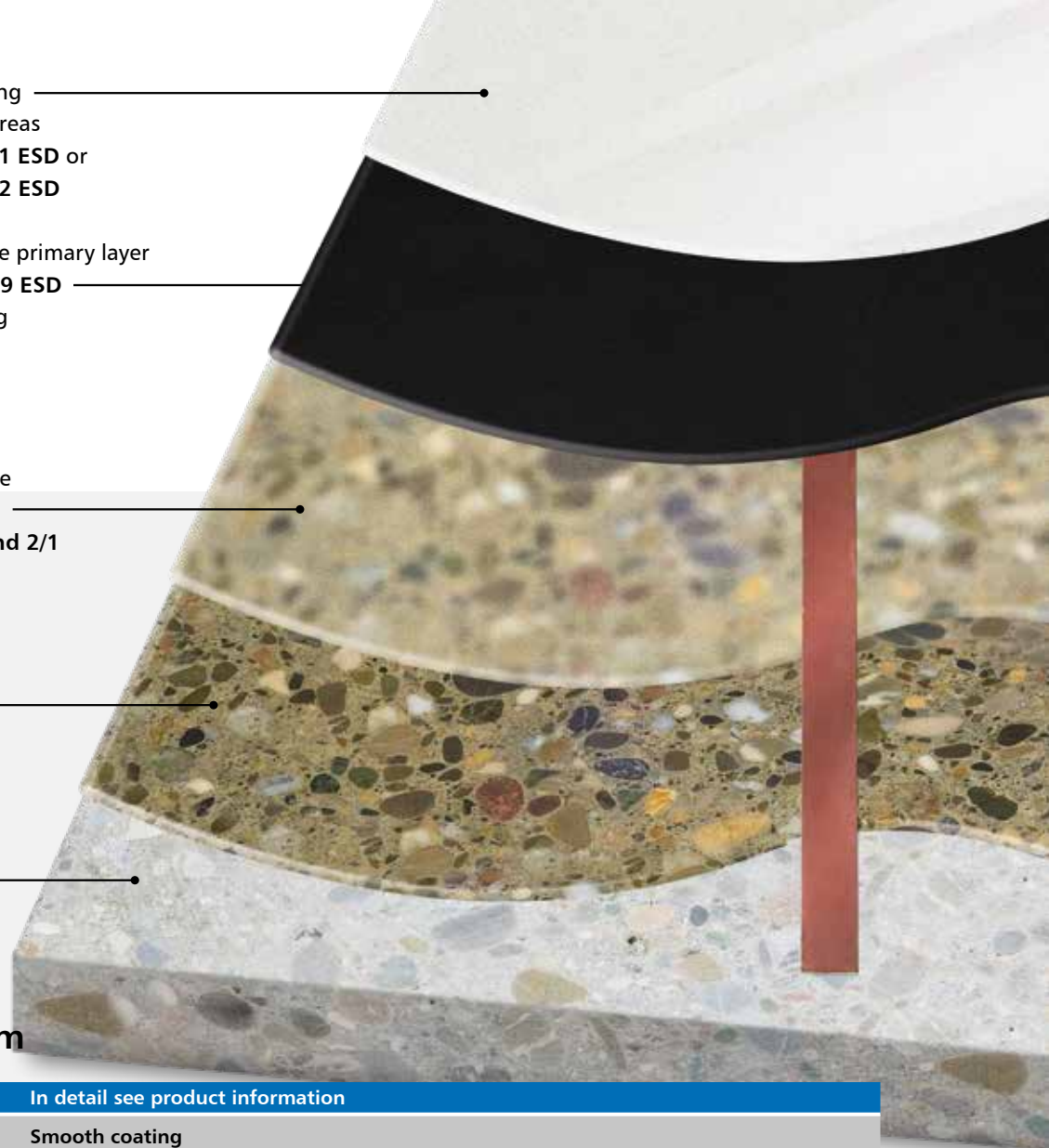
Electrically conductive coating —————
 especially suitable for ESD-areas
KLB-SYSTEM EPOXID EP 211 ESD or
KLB-SYSTEM EPOXID EP 212 ESD

Highly electrically conductive primary layer
KLB-SYSTEM EPOXID EP 799 ESD —————
 with copper band grounding

Scratch coat with all-purpose
KLB-SYSTEM EPOXID EP 50 —————
 blended with **KLB-Mischsand 2/1**

Base coat with all-purpose —————
KLB-SYSTEM EPOXID EP 50

Screed CT-C35-F5 —————
 or concrete C20/25



Build-up of system

Layer	In detail see product information
	Smooth coating
Lamination strength	1 – 1.4 mm
Coating	KLB-SYSTEM EPOXID EP 211 ESD or KLB-SYSTEM EPOXID EP 212 ESD
Conductive coat and grounding	Install grounding system with copper bands on 1 - 2 spots for each 100 m ² . Apply the conductive coat KLB-SYSTEM EPOXID EP 799 ESD
Scratch coat	KLB-SYSTEM EPOXID EP 50 blended with KLB-Mischsand 2/1
Base coat	KLB-SYSTEM EPOXID EP 50
Substrate	Requirements to the substrate according to the BEB-worksheets and our detailed base coat instructions or advice by our technicians.

System variant

Layer	In detail see product information
Increasing the slip resistance grade	To slightly increase the slip resistance grade to R9 or R10, it is possible to scatter the KLB-Strukturgranulat RQX 9 or RQX 10 .
Matting	It is possible to obtain a matt surface through an additional sealing with KLB-SYSTEM POLYURETHAN PU 881 EL+ . The anti-slip grade R10 is also possible.
Alternative coatings	Standard: KLB-SYSTEM EPOXID EP 200 EL+ For ESD-requirements: KLB-SYSTEM EPOXID EP 211 ESD or KLB-SYSTEM EPOXID EP 200 EL+ combined with KLB-SYSTEM POLYURETHAN PU 881 EL+ Elastic: KLB-SYSTEM POLYURETHAN PU 413 EL+ Vapour-permeable: KLB-SYSTEM EPOXID EP 785 EL+ oder KLB-SYSTEM EPOXID EP 790 EL+ For WHG-requirements: KLB-SYSTEM EPOXID EP 280 WHG Resistant to chemicals: KLB-SYSTEM EPOXID EP 285 EL+

Heat doesn't bother PU-BETON!

Industrial flooring for wet areas - resistant to hot water and chemicals

KLB-SYSTEM PU-BETON coatings are high-quality, 3-component polyurethane mortar coatings for highly loaded floors. Compared to other synthetic resin coatings, **PU-BETON** features a much better temperature resistance. This is the reason why they have been used since many years where floors come in contact with water, hot water, high temperatures and chemicals. Used in the food production and food processing industry as well as the beverage and chemical industry and many other areas.

Comparing to many common synthetic resin coatings which capitulate at temperatures of 60 °C / 140 °F, **KLB-SYSTEM PU-BETON** features a considerably higher glass transition temperature. An excellent temperature stability is achieved: up to 130 °C / 266 °F for humid heat and up to 150 °C / 302 °F for dry heat. This is what makes KLB **PU-BETON** perfect for high fluctuations in temperature and hot water.

KLB-SYSTEM PU-BETON also allows the usage of vapour jet cleaning equipment. To select the perfect **KLB-SYSTEM PU-BETON** flooring for your individual needs in industrial or trading business different system components and products as well as layers from 6 mm up to 9 mm are available. Because the coating is made in one pour it offers good mechanical resistance.

Application area

- Breweries, vinification industry, beverage industry
- Slaughterhouses and butcheries
- Food industry, bakeries
- Creamery, dairy farming
- Chemical industry, pharmaceutical industry and many more

Testing: External test certificates are available for the mentioned product system. Please ask for them.

Colour variations



Very convincing:

- high mechanical load capacity
- temperature stability up to 150 °C / 302 °F
- different grades of slip resistance (R9 – R13)
- layers of 6 up to 9 mm
- vapour cleaning possible
- available colours: beige, red, green and grey



Top sealer —————
KLB-SYSTEM PU-BETON 4080 or
KLB-SYSTEM PU-BETON 4080 Clean

Primary layer **KLB-SYSTEM PU-BETON 4009** —————
 and subsequent scattering
 with corundum 0.5/1.0 mm

Scratch coat
KLB-SYSTEM PU-BETON 4006 —————
 or, for a level adjustment,
KLB-SYSTEM PU-BETON 4045

Base coat
KLB-SYSTEM PU-BETON 4050 —————

Screed CT-C35-F5-V60 —————
 or concrete C25/30

Build-up of system

Layer	In detail see product information	
	R11	R12 (slip resistant)
Lamination strength	8 – 10 mm	
Top coating	KLB-SYSTEM PU-BETON 4011 Grip	KLB-SYSTEM PU-BETON 4080 as top sealer
Primary layer and scattering		KLB-SYSTEM PU-BETON 4009 and scattering with corundum 0.5/1.0 mm
Scratch coat	Optional for increased depth of roughness with KLB-SYSTEM PU-BETON 4006	
Base coat	KLB-SYSTEM PU-BETON 4050 Grundierung	
Substrate	Requirements to the substrate according to the BEB-worksheets and our detailed base coat instructions or advice by our technicians. Important: watch out for tensile strength and compression proof substrate as well as anchoring cuts according to the requirements.	

System variant

Layer	In detail see product information
Slip resistance	Class R9 – R13 can be achieved by scattering with different sand or corundum.
Hygienic surface	KLB-SYSTEM PU-BETON PU 4080 Clean Kopfsiegel is treated preventively against bacterial attack. This helps to create permanently hygienic surfaces.
Colour	4 different colours are available
Levelling mortar	For higher surface roughness and leveling: KLB-SYSTEM PU-BETON 4045
Alternative coatings	6 mm layer thickness: KLB-SYSTEM PU-BETON 4006 9 mm layer thickness: KLB-SYSTEM PU-BETON 4009

KLB-SYSTEM EPOXID EP 652 W

All of a piece – even for wall and ceiling!

Solvent-free, stable, thixotropic 2-component epoxy resin
for smooth coatings on wall and ceiling

KLB-SYSTEM EPOXID EP 652 W is a pigmented, 2-component epoxy resin system for wall and ceiling. It is adjusted stable, solvent-free and flexible for the creation of pore-free, jointless and smooth coatings for wall and ceiling, to be applied in multiple layers.

Depending on the demand on resistance and appearance the product can be applied in 2 to 4 layers with in-between grinding. **KLB-SYSTEM Armierungsgewebe VA 1040** can be used to increase robustness and crack bridging. Due to its flexible adjustment **KLB-SYSTEM EPOXID EP 652 W** achieves a static crack-bridging of 0.5 mm.

The pore-free surface of the product has the advantage to be very hygienic, easy-to-clean and very well decontaminable. The jointless surfaces are optically very appealing and they represent a very good alternative to other types of wall coatings.

The solvent-free system is completed with the high coverage wall sealer **KLB-SYSTEM POLYURETHAN PU 806 E – Wall** or with the hygienic sealer **KLB-SYSTEM POLYURETHAN PU 806 E Clean - Wall**.

Application area

- Wall and ceiling coatings, e.g. for hospitals and health care facilities, food industry or clean room technology
- Areas frequently subjected to moisture, e.g. bathrooms in private living areas

Testing: External test certificates are available for the mentioned product system. Please ask for them.

Very convincing:

- thixotropic-stable
- crack-bridging
- robust
- pigmented, smooth surfaces
- jointless
- resistant to water and chemicals
- solvent-free



Pigmented top sealer

KLB-SYSTEM POLYURETHAN PU 806 E Clean - Wall

Fine trowelled compound with
intermediate grinding

KLB-SYSTEM EPOXID EP 652 W

Top coat with intermediate grinding

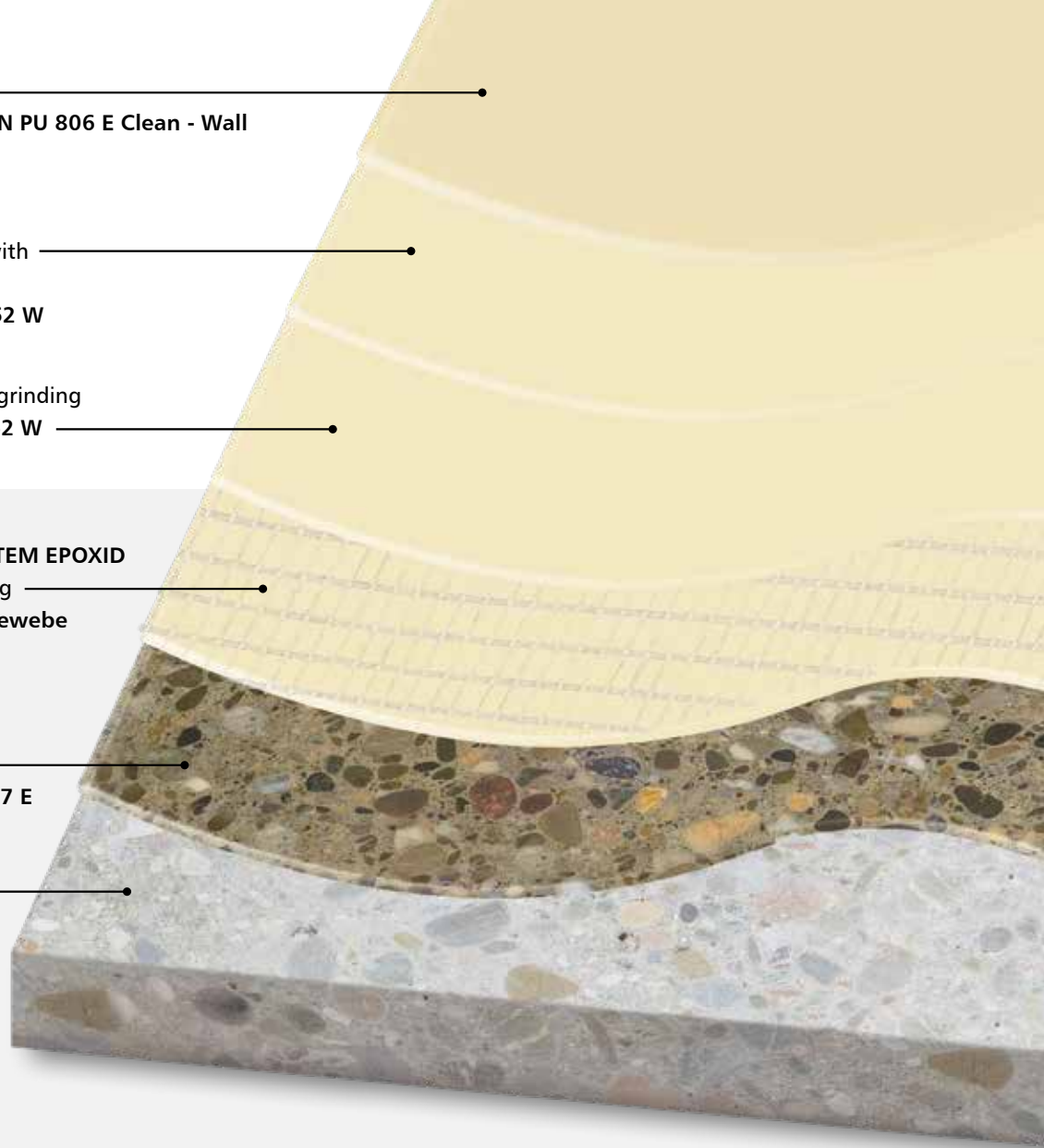
KLB-SYSTEM EPOXID EP 652 W

Primary layer with **KLB-SYSTEM EPOXID
EP 652 W** and crack-bridging
**KLB-SYSTEM Armierungsgewebe
VA 1040**

Base coat with
vapour-permeable

KLB-SYSTEM EPOXID EP 727 E

Concrete surfaces,
water-proof rendering
or dry wall panels
according to DIN EN 520



Build-up of system

Layer	In detail see product information
Top sealer	KLB-SYSTEM POLYURETHAN PU 806 E - Wall
Fine trowelled compound	KLB-SYSTEM EPOXID EP 652 W with intermediate grinding
Top coat	KLB-SYSTEM EPOXID EP 652 W with intermediate grinding
Reinforcement webbing	KLB-SYSTEM Armierungsgewebe VA 1040
Primary layer	KLB-SYSTEM EPOXID EP 652 W
Base coat	KLB-SYSTEM EPOXID EP 727 E
Substrate	Requirements to the substrate according to the BEB-worksheets and our detailed base coat instructions or advice by our technicians.

System variant

Layer	In detail see product information
Hygienic surface	KLB-SYSTEM POLYURETHAN PU 806 E Clean - Wall
Improved chemical resistance	KLB-SYSTEM EPOXID EP 860 or KLB-SYSTEM EPOXID EP 860 Clean

KLB-SYSTEM EPOXID EP 280 WHG
KLB-SYSTEM EPOXID EP 282 WHG



Coatings with water protection requirements "à la carte"!

Chemically resistant 2-component epoxy resin coatings with technical approval for water protection

KLB-SYSTEM EPOXID EP 280 WHG and **EP 282 WHG** are solvent-free, crack-bridging 2-component epoxy resin self-levelling coatings with very good chemical resistance.

KLB-SYSTEM EPOXID EP 280 WHG and **EP 282 WHG** have been tested regarding the Water Resources Law requirements (WHG** § 63) and have been accredited by the German Institute for Construction (Deutsches Institut für Bautechnik - DIBt®)

The coating is suitable for collection rooms and collection trays, like HBV**- and LAU**-equipment, which have been tested according to the Water Resources Law.

KLB-SYSTEM EPOXID EP 280 WHG is electrically conductive and suitable for areas with explosion proof requirements.

Both coatings are elastic and offer good chemical resistance. According to DIBt®-principles both coatings are resistant to many tested chemicals.

Please note the classification of operation type with the comprehensive accreditations and test reports.

Application area

- Coating of collection rooms and collection trays in regard to the WHG**-requirements and technical approval
- Industrial flooring with traffic regarding the WHG**-requirements
- Electrically conductive and chemically resistant industrial flooring

Testing: External test certificates are available for the mentioned product system. Please ask for them.

**WHG, HBV and LAU: Referred to German Law

Very convincing:

- high chemical resistance
- crack-bridging (0.2 mm)
- suitable for traffic
- impervious to fluids
- solvent-free
- tested and accredited for LAU**-equipment



Highly chemical-resistant, electrically conductive

2-c epoxy resin coating

KLB-SYSTEM EPOXID EP 280 WHG

Highly electrically conductive primary layer

KLB-SYSTEM EPOXID EP 799 Ableitgrund

with a copper band grounding

Scratch coat with VOC-tested

KLB-SYSTEM EPOXID EP 55

blended with **KLB-Mischsand 2/1**

Base coat with VOC-tested

KLB-SYSTEM EPOXID EP 55

Screed CT-C35-F5

or concrete C20/25

Build-up of system

Layer	In detail see product information	
	Conductive coating	Non conductive coating (standard)
Lamination strength	2 – 3 mm	
Coating	KLB-SYSTEM EPOXID EP 280 WHG	KLB-SYSTEM EPOXID EP 282 WHG
Conductive coat and grounding	Install grounding system with copper bands on 1 - 2 spots for each 100 m ² . Apply the conductive coat KLB-SYSTEM EPOXID EP 799 Ableitgrund	
Scratch coat (optional)	KLB-SYSTEM EPOXID EP 55 blended with KLB-Mischsand 2/1	
Base coat	KLB-SYSTEM EPOXID EP 55	
Substrate	Requirements to the substrate according to the BEB-worksheets and our detailed base coat instructions or advice by our technicians.	

System variant

Layer	In detail see product information
Increasing the slip resistance grade	To slightly increase the slip resistance grade scatter with silicium carbide.
Matting	Additionally apply KLB-SYSTEM POLYURETHAN PU 881 EL+ for a matt surface. Also available in slip resistance grade R10.
Alternative coatings	Electrically conductive: Standard: KLB-SYSTEM EPOXID EP 200 EL+ ESD-requirements: KLB-SYSTEM EPOXID EP 211 ESD or KLB-SYSTEM EPOXID EP 200 EL+ combined with KLB-SYSTEM POLYURETHAN PU 881 EL+ Elastic: KLB-SYSTEM POLYURETHAN PU 413 EL+ Vapour-permeable: KLB-SYSTEM EPOXID EP 785 EL+ or KLB SYTEM EPOXID EP 790 EL+

KLB-SYSTEM EPOXID EP 236

Very well "structured"!

The economical 2-component epoxy resin textured coating

KLB-SYSTEM EPOXID EP 236 is a coloured, thixotropic adjusted 2-component epoxy resin coating for thin, burling-textured coatings. Due to its consistency the surface structure can be achieved easily.

KLB-SYSTEM EPOXID EP 236 results in optically appealing floor- and wall-coatings with a textured, glossy and free-of-pores surface. The coating is abrasion resistant and resistant to light mechanical load. By adding 10 – 15 % of silicium carbide abrasion resistance and slip resistance can be increased.

The coating offers good resistance to chemicals, especially to aqueous salt solutions, acids and bases, as well as oil and benzine. Conditionally resistant to diluted organic acids. **KLB-SYSTEM EPOXID EP 236** offers a good colour tone stability.

Application area

- Floor- and wall-coating for commercially and industrially used areas, like production rooms, assembly halls and stockage rooms, repair shops and many other rooms

Testing: External test certificates are available for the mentioned product system. Please ask for them.

Very convincing:

- abrasion resistant
- high laying-output
- economical
- surface structured with burlings
- suitable for vertical surfaces
- resistant to chemicals



Textured coating

KLB-SYSTEM EPOXID EP 236

Scratch coat with all-purpose

KLB-SYSTEM EPOXID EP 50

blended with **KLB-Mischsand 2/1**

Base coat with all-purpose

KLB-SYSTEM EPOXID EP 50

Screed **CT-C35-F5**

or concrete **C20/25**

Build-up of system

Layer	In detail see product information
Lamination strength	0.5 – 1.0 mm
Textured coating	KLB-SYSTEM EPOXID EP 236
Scratch coat (optional)	KLB-SYSTEM EPOXID EP 50 blended with KLB-Mischsand 2/1
Base coat	KLB-SYSTEM EPOXID EP 50
Substrate	Requirements to the substrate according to the BEB-worksheets and our detailed base coat instructions or advice by our technicians.

System variant

Layer	In detail see product information
Decorative scattering	Adding partiColor®-Chips (size 1 mm) and subsequently sealing is suitable for the coloured design. Apply a matt sealer finish.
Increasing the wear resistance	The mechanical and wear resistance can be increased by adding 10 – 15 % of silicium carbide.
Increasing the slip resistance grade	The slip resistance grade R10 can be obtained through a sealing with KLB-SYSTEM EPOXID EP 705 E - R10 or KLB-SYSTEM EPOXID EP 706 E - R10 .
Matting	For a matt surface additionally apply KLB-SYSTEM EPOXID EP 705 E / EP 706 E .
Alternative coatings	Standard: KLB-SYSTEM EPOXID EP 213 or KLB-SYSTEM EPOXID EP 220 Elastic: KLB-SYSTEM POLYURETHAN PU 420 or KLB-SYSTEM POLYURETHAN PU 421 Thin-coated, conductive: KLB-SYSTEM EPOXID EP 233 EL+ Vapour-permeable: KLB-SYSTEM EPOXID EP 740 E

KLB-SYSTEM POLYURETHAN PU 5000 RX

KLB-RX:

Wait a moment, finished!



Very rapid setting, scattered polyurethane resin coating, slip resistant and photostable, accessible within 3 hours

KLB-SYSTEM POLYURETHAN PU 5000 RX is a slip resistant, scattered coating which is characterised by its very rapid curing and usability. Its application areas are slip resistant floors in reconstruction works for commercially and industrially used parking areas and garages - for interior and exterior. Even for small areas, to keep the processing times in rehabilitation works as short as possible.

KLB-SYSTEM POLYURETHAN PU 5000 RX consists of a 2-component reactive polyurethane resin which is applied after mixing with a trowel on the prepared substrate. Afterwards it is scattered with the RX- Abstreukomponente. After the primary layer curing, taking only 20 - 40 minutes, and after sweeping off any excess, a subsequent top sealing can be laid. The special advantage is the granted accessibility after only 2 - 6 hours, depending on the surrounding temperature. The product is particularly effective in short-term (day or weekend long) construction sites.

The product is available in R10, R11 and R12 slip resistance grades. That makes it suitable for interior and exterior areas frequently or occasionally exposed to humidity. The coating is widely resistant to yellowing.

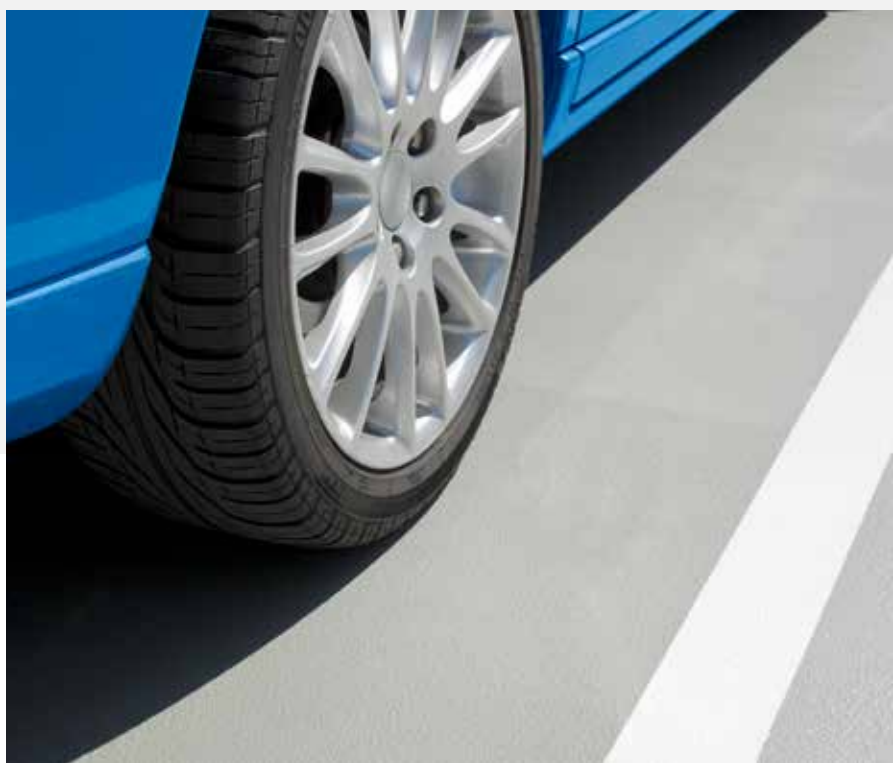
Application area

- Restruction of parking garages, parking areas and vehicle halls
- Traffic areas in car parks
- Balconies and access balconies
- Commercial traffic areas

Testing: External test certificates are available for the mentioned product system. Please ask for them.

Very convincing:

- rapid installation
- ready for further processing after 20 - 40 minutes
- accessible after 2 - 6 hours
- very low odour
- photostable and weather resistant
- slip resistant R10, R11 or R12
- suitable for reconstruction works, small construction areas



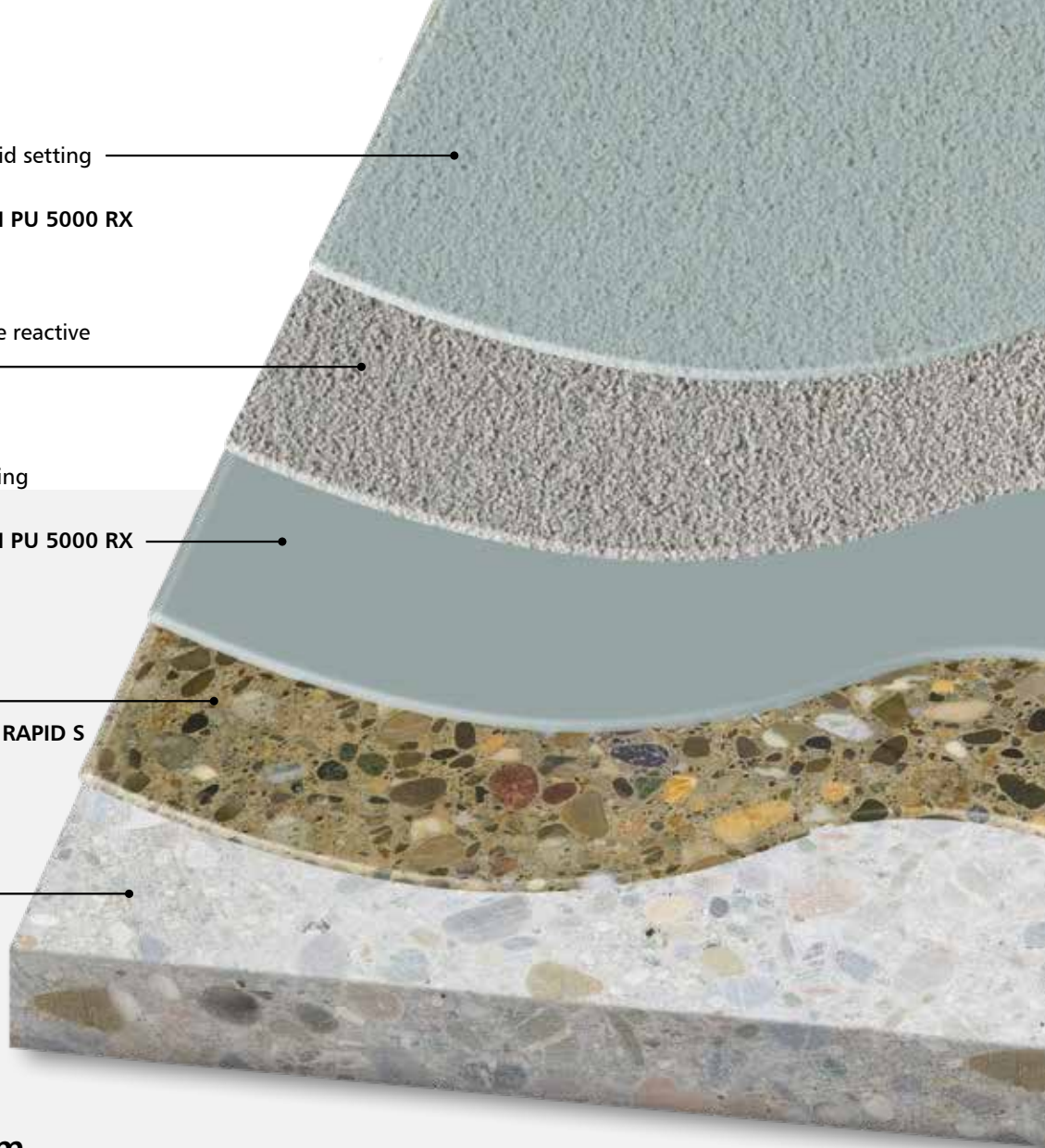
Sealer with photostable, rapid setting
2-c polyurethane resin
KLB-SYSTEM POLYURETHAN PU 5000 RX

Complete scattering with the reactive
RX-Abstreukomponente

Primary layer with rapid setting
2-c polyurethane resin
KLB-SYSTEM POLYURETHAN PU 5000 RX

Base coat and/or
priming filler
with rapid 2-c epoxy resin
KLB-SYSTEM EPOXID EP 51 RAPID S

Screed CT-C35-F5
or concrete C20/25



Build-up of system

Layer	In detail see product information
Lamination strength	approx. 2 mm
Sealer	KLB-SYSTEM POLYURETHAN PU 5000 RX
Scattering	Reactive RX-Abstreukomponente available in R10, R11, R12
Primary layer	KLB-SYSTEM POLYURETHAN PU 5000 RX
Base coat (trowelable primer optional)	KLB-SYSTEM EPOXID EP 51 RAPID S or KLB-SYSTEM EPOXID EP 52 RAPID depending on the requirements, with a final complete scattering.
Substrate	Requirements to the substrate according to the BEB-worksheets and our detailed base coat instructions or advice by our technicians.

KLB-SYSTEM ACRYL AC 313

When it must be fast!

Rapid setting, flexible acrylic coating resin for scattered surfaces in wet areas

KLB-SYSTEM ACRYL AC 313 is a solvent-free and flexible PMMA-resin, to be used as primary layer for coatings scattered with color or natural sands. The hardened coating is characterized by a high wear resistance as well as a resistance to common chemicals. The coating surface can be delivered in various antiskid classes from R11 to R13.

The scattered primary layer is sealed with **KLB-SYSTEM ACRYL AC 820**. For constantly wet areas we recommend the top sealer **KLB-SYSTEM ACRYL AC 826**.

The hardened surfaces are hygienic, have an easy cleanability and are particularly suitable for antiskid areas with water- and chemical resistance in the food processing industry.

Application area

- Coloured support layer for decorative coatings, scattered with color sand
- Production areas with a light load and storage areas in different sectors (3 mm coating)
- Areas with a higher mechanic load, e.g. Production or storage areas in different sectors (5 mm coating)

Testing: External test certificates are available for the mentioned product system. Please ask for them.

Very convincing:

- very rapid setting
- fast usability
- hardens at low temperatures
- resistant to water and chemicals
- workable after 1 hour
- immediately water resistant
- suitable for renovations
- solvent-free



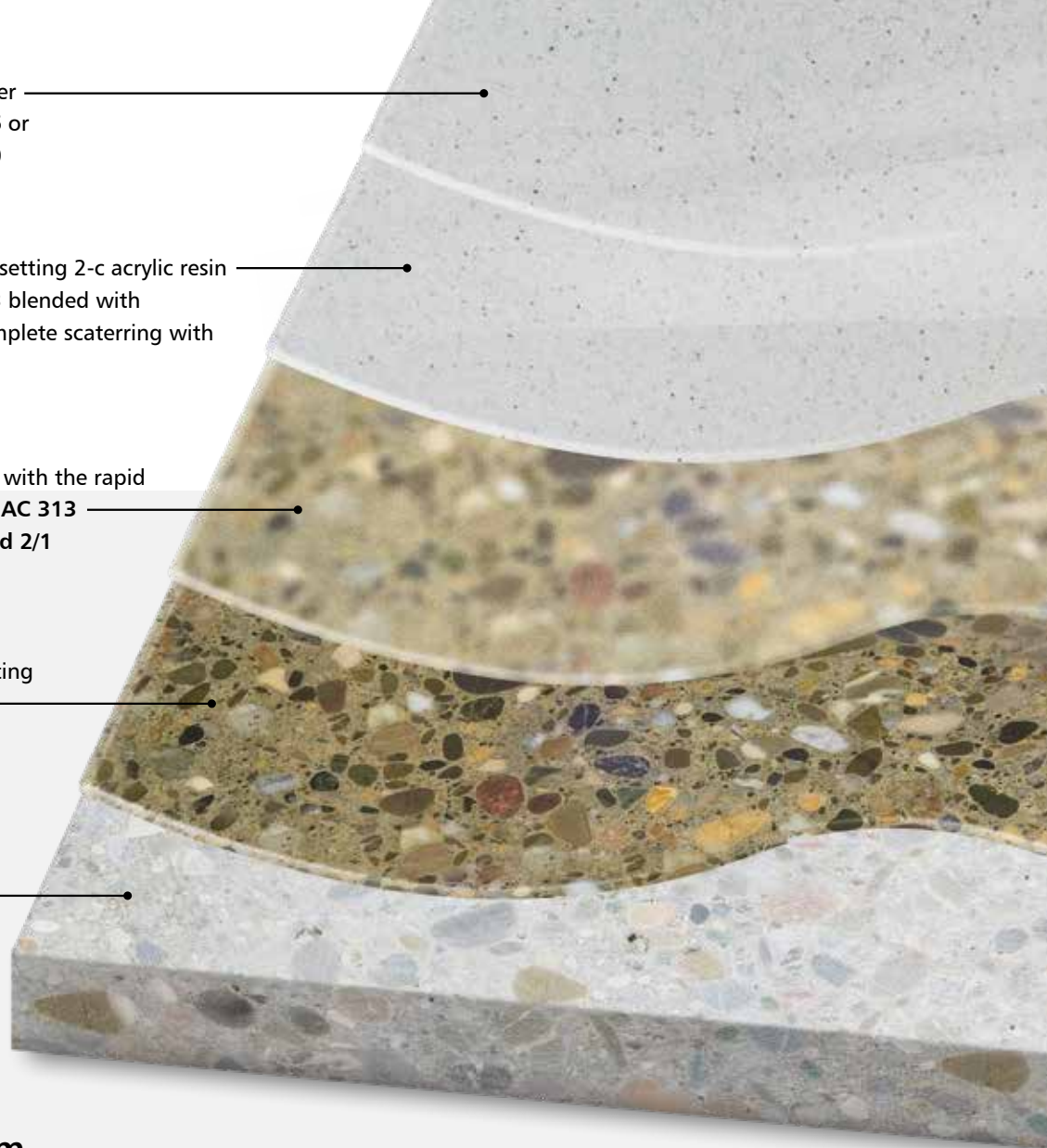
Rapid setting 2-c acrylic sealer —————●
KLB-SYSTEM ACRYL AC 826 or
KLB-SYSTEM ACRYL AC 820

Primary layer with the rapid setting 2-c acrylic resin —————●
KLB-SYSTEM ACRYL AC 313 blended with
KLB-Mischsand 2/1 and complete scattering with
 color or natural sand

Scratch coat and pore filling with the rapid
 setting **KLB-SYSTEM ACRYL AC 313** —————●
 blended with **KLB-Mischsand 2/1**

Base coat with the rapid setting
KLB-SYSTEM ACRYL AC 20 —————●

Screed CT-C35-F5 —————●
 or concrete C20/25



Build-up of system

Layer	In detail see product information
Lamination strength	3 – 5 mm
Sealer	KLB-SYSTEM ACRYL AC 820 or KLB-SYSTEM ACRYL AC 826 , Consumption rate according to the requirements for slip resistance as top sealer
Scattering	Full scattering with color or natural sand, grain size 0.3/0.8 mm or 0.7/1.2 mm
Primary layer	KLB-SYSTEM ACRYL AC 313
Scratch coat (optional)	For higher surface roughness, it is recommended a scratch coat with KLB-SYSTEM ACRYL AC 313 blended with KLB-Mischsand 2/1 .
Base coat	KLB-SYSTEM ACRYL AC 20
Substrate	Requirements to the substrate according to the BEB-worksheets and our detailed base coat instructions or advice by our technicians.

KLB-SYSTEM EPOXID EP 216 RAPID

Rapid beyond limits!

Rapid setting, coloured 2-c epoxy resin coating for fast re-usability

KLB-SYSTEM EPOXID EP 216 RAPID is a rapid setting 2-c epoxy resin coating for reconstruction and coatings. At normal room temperatures, **KLB-SYSTEM EPOXID EP 216 RAPID** in combination with **KLB-SYSTEM EPOXID EP 51 RAPID S** can be laid and used again in 8 – 24 hours.

With **KLB-SYSTEM EPOXID EP 216 RAPID** it is possible to obtain smooth or medium antiskid surfaces (R9 or R10) as well as surfaces with a higher anti-slip grade (R11, R12 or R13).

For scattered surfaces, through the low viscosity and high coverage of **KLB-SYSTEM EPOXID EP 216 RAPID**, it is possible to lay the primary layer, scatter and proceed with the sealing with the same material. For color sand coatings, we recommend as top sealer the yellowing resistant and also rapid setting product **KLB-SYSTEM POLYURETHAN PU 475 Spezial**.

Application area

- Weekend and daily construction sites
- For renovations with a small time window and quick reusability
- As a smooth or scattered coating with different slip resistance grades
- For thin coatings (0.6 - 1.5 mm) with a light mechanical load, up to robust coatings (3 - 4 mm) for heavily loaded surfaces
- From storage areas to production halls

Testing: External test certificates are available for the mentioned product system. Please ask for them.

Very convincing:

- suitable for reconstruction
- for indoors and outdoors areas
- antiskid (R9 - R13)
- rapid setting
- fast re-usability
- all-purpose
- resistant to water chemicals
- fillable with sand
- solvent-free



Rapid setting

2-c epoxy resin coating

KLB-SYSTEM EPOXID EP 216 RAPID

Scratch coat and pore filling with
the rapid setting **KLB-SYSTEM EPOXID
EP 51 RAPID S** blended with
KLB-Mischsand 2/1

Base coat with rapid setting
**KLB-SYSTEM EPOXID
EP 51 RAPID S**

Screed CT-C35-F5
or concrete C20/25

Build-up of system

Layer	In detail see product information
	Smooth coating
Lamination strength	1 – 3 mm
Coatig	KLB-SYSTEM EPOXID EP 216 RAPID
Scratch coat (optional)	A scratch coat with KLB-SYSTEM EPOXID EP 51 RAPID S is recommended for higher depth of roughness.
Base coat	KLB-SYSTEM EPOXID EP 51 RAPID S
Substrate	Requirements to the substrate according to the BEB-worksheets and our detailed base coat instructions or advice by our technicians.

System variant

Layer	In detail see product information	
	Antiskid scattered coating	
	Color sand scattered coating	Monochrome scattered coating
Top sealer	KLB-SYSTEM POLYURETHAN PU 475 Spezial	KLB-SYSTEM EPOXID EP 216 RAPID
Scattering	Color sand 0.3/0.8 mm or 0.7/1.2 mm	Natural sand 0.3/0.8 mm or 0.7/1.2 mm
Coating	KLB-SYSTEM EPOXID EP 216 RAPID	
Scratch coat (optional)	A scratch coat with KLB-SYSTEM EPOXID EP 51 RAPID S is recommended for higher depth of roughness.	
Base coat	KLB-SYSTEM EPOXID EP 51 RAPID S	
Substrate	Requirements to the substrate according to the BEB-worksheets and our detailed base coat instructions or advice by our technicians.	



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Certified according
to ISO 9001.