



FLOORING

SIKA TECHNOLOGY AND CONCEPTS FOR FLOORING AND COATING



BENEFIT OF OUR SOLUTION

Sika has continued to strengthen its position as the worldwide market leader in construction chemicals. As part of this expansion, Sika has maintained a strong focus on providing flooring and coating systems for many different applications and extending them worldwide. Today Sika provides a full range of flooring and coating solutions, which meet or exceed all of the latest standards and requirements for both new and refurbishment works.

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SIKA'S FLOORING AND COATING CAPABILITIES FOR A HEALTHIER AND SAFER URBAN SPACE

Sika flooring and coating solutions are based on many technologies including: Epoxy, PUR and PMMA resins; combinations of different binder technologies such as PU & Cement and EP & Cement for solutions covering all types of requirements for industrial and commercial applications. Sika's quality products are designed for the latest trends and requirements and comply with all regulations and standards, e.g. ISO 9001 and 14001, AgBB, CE-MARKING, M1, CSM, etc. Additionally, Sika is the world leader in VOC and ESD/ECF flooring technology, see details on page 30.

Sika flooring and coating solutions are used in various function areas in buildings and facilities, for example for industrial floors with mechanical and chemical resistance, food industry walls with hygienic requirements, floors and walls in clean room environments, and decorative floors and walls in commercial and residential buildings. Their application can be used in almost all project types in an urban space:

- Manufacturing Industry (automotive, electronics, assembly plants, chemicals, etc.)
- Life Science Industry (food and beverage, pharmaceuticals, professional laboratories, etc.)
- Warehouse and Distribution (storage and transportation)
- Car Park, Parking Garages (public, commercial, private)
- Commercial Buildings (hotels, shops, offices, exhibition centers, etc.)
- Institutional Buildings (schools, hospitals, libraries, museums, athletic centers, etc.)
- Interior Finishing (residential and small commercial, distribution business)
- Carriers (marine, trains and rail, trucks and busses)

Sika flooring has more than 50 years experience and is worldwide technology leader in seamless flooring. It is the ideal option for all flooring needs. Its important contributions to the worldwide flooring construction material technology development are:



- Early 80's: the first modular concept for Epoxy systems which is partly still in use today
- EpoCem® - the first hybrid in the market
- Sikafloor® 261 - first self-leveling floor - upright application process
- PU/PUA Hybrid - new technology for carpark coatings

- Sikafloor® Ecoline - global breakthrough with ecological and cost efficient systems
- Sikafloor® Purcem® Gloss - high end industrial floors with best cost / performance ratio
- More innovation to come in the future



Solutions for Storage, Logistics and Sales Areas. Page 12



Solutions for Multi-Storey and Underground Car Parks. Page 44



Solutions for Production and Processing Areas. Page 20



Leveling solution for perfectly even and smooth floor substrate. Page 54



Solutions for Cleanroom Areas. Page 30



Solutions for Commercial, Public and Residential Areas. Page 58



Solutions for Electro Static Discharge (ESD) Protection and Control. Page 36



Solutions for Walls and Ceilings. Page 68



Solutions for Secondary Containment Areas. Page 40



Detailing and Jointing Solutions for Flooring Applications. Page 72

Sika coating is known for its high durability performance when used in critical environments such as:

- Secondary containment areas
- Tank lining
- Water treatment facilities
- Interior walls and ceilings in industrial and commercial facilities
- Steel structures which need corrosion protection
- Structures which need to meet fire protection standards

Sikafloor® SOLUTIONS – A SEAMLESS MATCH FOR YOUR SPECIFIC NEEDS

WHAT MAKES A FLOOR A Sikafloor®? At Sika, the global leader in innovative flooring solutions, we listen carefully to what our customers want and need, stay abreast of changes that can impact your business, and make significant investments in research, development and testing in order to bring you trusted, engineered solutions based on evidence and best practices. Our time-tested, proven approach is rooted in more than 100 years of experience developing technologies used in flooring as well as concrete production, below-ground waterproofing, roofing, sealing and bonding, and other industrial applications.



We know that your business has its own unique flooring requirements in terms of impact resistance, rolling load resistance, wear resistance, safety regulations, antistatic performance, chemical or fire resistance and, increasingly, quick and efficient installation. Because our products can be customized to meet your technical requirements while still complying with government regulations, you're assured of getting excellent solutions that have only the characteristics you want and need.

Sika is a global expert in all core technologies commonly used in our specialty area of seamless flooring. And, all Sikafloor®



solutions are developed and manufactured according to industry standards as well as our own strict standards for quality assurance and business ethics. To ensure the perfect solution for your business, we offer several flooring families for you to choose from. Families are based on core technologies. Variations within each family allow you to find solutions fine-tuned to your individual needs. All of the families are bonded together by our core flooring values: seamless solutions for your needs, innovative designs, durable and sustainable performance by offering more value at less impact, and full professional support by expert field personnel who are not only the best at what they do but who also take great pride in their work and care about your project.

We design every seamless Sikafloor® product using liquid-applied synthetics or synthetic-cementitious-hybrids. Our synthetic solutions are ideal for a wide variety of applications which is why you find them in industrial buildings, food and pharma facilities, car parks, schools, libraries, hospitals, shopping malls, museums, apartment building balconies, private residential properties and other settings.

Our cementitious flooring solutions are designed for ready-to-use and subfloor preparation applications. For time-critical projects, we offer a unique technology that reduces the waiting time for moist concrete to dry – our Sikafloor® EpoCem® intermediate layers can be installed directly on green and damp concrete.

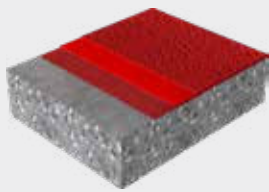
Whether you're a building tenant, owner or applicator, Sika has you covered. In addition to our array of product offerings, we can supply you with industry certifications, proof of product performance and a global network of flooring specialists. For applicators, we also offer training programs to ensure proper installations. We do these things because we believe in Building Trust.



Sikafloor® SOLUTIONS – A SEAMLESS MATCH FOR YOUR SPECIFIC NEEDS

HERE'S A LOOK AT OUR PRODUCT OFFERINGS:

Sikafloor® MultiDur



Epoxy flooring systems by Sika, a global standard. Your workhorse for heavy-duty performance, these flooring systems offer excellent mechanical strength, wear-resistance and chemical-resistance. Although seamless

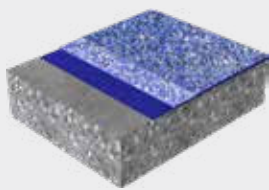
floors, by definition, are aesthetically pleasing, color and design are typically not our customers' major driver in choosing these flooring options. Rather, functionality and delivering long-lasting performance are where these floors excel. Choose from smooth, textured, broadcasted (slip-resistant) and mortar finishes to ensure the usability, safety and cleaning regime best fitting your needs.

Within the Sikafloor® MultiDur family you will find special solutions with extremely high chemical resistance; solutions approved for cleanroom usage; and electrostatic discharging, dissipative and electrically conductive flooring. For more basic flooring use and high performance wall coating needs, we offer water-borne coating systems.

Sikafloor® MultiDur solutions are commonly found in:

- Storage, logistics and sales areas
- Production, processing and cleanroom areas (dry and wet)
- Ground-bearing decks, car parks
- Commercial, public and residential areas

Sikafloor® DecoDur



Decorative epoxy flooring systems by Sika. These added design options for heavy-duty flooring are perfect for projects where you want more than a traditional, uni-color design and need the performance of an epoxy

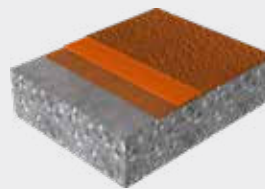
floor. Within the Sikafloor® DecoDur family, we offer flooring solutions with different grades of mechanical and chemical resistance, all in a speckled design. Patterns range from a granite effect up to a larger full-flake design and are available in a variety of colors. Typically, Sikafloor® DecoDur floors are installed with a smooth or lightly broadcasted surface texture. At your preference, we can finish the floor with a matte sealer that's designed to withstand common household and light-industrial chemicals or a tougher, more chemical-resistant, glossy finish.

Sikafloor® DecoDur floors are commonly found in:

- Life science facilities
- Laboratories
- High-pedestrian traffic zones in commercial and institutional buildings
- Food courts



Sikafloor® MultiFlex



Polyurethane flooring systems for heavy duty and industrial usage by Sika. Sikafloor® MultiFlex systems are known for their higher elasticity which allows for crack-bridging designs. Further, these floors excel in absorbing

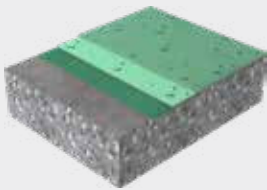
base floor movements.

Sikafloor® MultiFlex solutions include designs installed directly on top of elastic waterproofing membranes and are available with or without special surface protection. These floors are installed in smooth, light broadcast and heavy broadcast (high anti-slip) designs.

Sikafloor® MultiFlex can commonly be found in:

- Storage, logistic and sales areas (raised floors)
- Production, processing and cleanroom areas (dry and wet)
- Car parks, intermediate and top decks

Sika ComfortFloor®



With decorative, polyurethane flooring systems for commercial and residential applications by Sika, perfection has never been so close. Global technology leadership in industrial and resilient flooring comes together in our

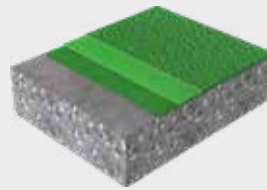
Sika ComfortFloor® family, offering seamless, high-end aesthetics for even the most discerning clientele. An environmentally friendly solution, Sika ComfortFloor® is mainly based on natural oils and organic raw materials. Its backing – comprised of resilient, acoustic isolation pads – are made of recycled rubber and foam particles.

Sika ComfortFloor® systems offer nearly unlimited design freedom. They are typically installed in a matte finish and are available in 72 standard colors. Custom colors are an option, as are two-tone “concrete-look” designs and the ability to create your own floor art. Additional options include broadcasted colored flakes for a speckled design and a light, anti-slip surface texture for use in wet areas such as showers and toilet rooms. All systems offer very high color stability.

Sika ComfortFloor® solutions are commonly found in:

- Institutional buildings such as schools, museums, libraries and hospitals
- Commercial buildings such as shopping malls, hotels, office buildings and restaurants
- Residential buildings of high-end, modern design

Sikafloor® MonoFlex



One-component, polyurethane flooring solutions for easy installations, by Sika. Sikafloor® MonoFlex flooring solutions have earned their excellent reputation based mainly on their performance as a waterproof finish for

balconies, walkways and staircases with pedestrian traffic. These moisture-triggered solutions are true innovations in terms of sustainability and ease of application.

Upon request, broadcasted colored flakes can be added for a speckled design. A light or medium anti-slip surface texture can also be provided. All systems in this family offer very high color stability.

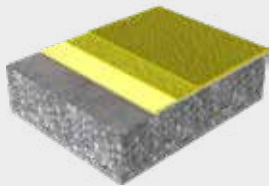
Sikafloor® MonoFlex solutions are commonly found in:

- Balconies
- Pedestrian walkways and staircases



Sikafloor® SOLUTIONS – A SEAMLESS MATCH FOR YOUR SPECIFIC NEEDS

Sikafloor® PurCem®



Polyurethane cementitious hybrid flooring systems by Sika. These innovative flooring solutions deliver extreme performance in terms of mechanical and chemical resistance as well as reduced environmental impact. Because

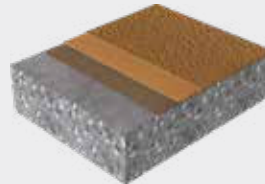
they're durable, low maintenance and available with resurfacing options, our versatile Sikafloor® PurCem® range of systems is gaining global appreciation and can be found in a wide variety of heavy-duty applications. The special core technology of an elastic resinous binder reacting with cementitious fillers is what makes this system family resistant to high temperature variations, even thermo shocks for certain designs. Installation on damp concrete surfaces is possible with Sikafloor® PurCem®.

Typically, Sikafloor® PurCem® floors are installed in a light or heavy anti-slip broadcast or in a full mortar build-up to ensure high performance in wet areas. A smooth/light-textured surface finish is available for dry areas. Sikafloor® PurCem® Gloss is the latest innovation to our Sikafloor® PurCem® family. This system's glossy finish allows for significantly easier floor cleaning. Specified with a smooth surface finish and in a low- to medium- thickness, this solution can be an alternative to some Sikafloor® MultiDur systems.

Sikafloor® PurCem® solutions are commonly found in:

- Food and beverage processing facilities
- Professional kitchens
- Cool storage areas
- Heavy-duty processing areas, especially wet processing

Sikafloor® Pronto



Methacrylate (P.M.M.A.) flooring systems that speed up installation times to the maximum, by Sika. Our Pronto family is known for its high resistance to a wide variety of uses. The super-fast curing time of these synthetics

allows for super-quick refurbishments, though proper ventilation is required during installation to avoid inconveniences from odors.

When applied to areas with pedestrian traffic, Sikafloor® Pronto surfaces are typically installed in a smooth or light broadcast finish. A colored-flake broadcast finish can be provided upon request. A heavier broadcast finish is available for applications where there is vehicle traffic.

Sikafloor® Pronto solutions are commonly found in:

- Commercial kitchens
- Process areas
- Pedestrian walkways, such as balconies and staircases
- Animal facilities
- Multi-story and underground car parks



Sikafloor® OneShot



The fastest way to finish your car park and bridge deck, by Sika. This unique, innovative solution allows two steps in one shot. Our super-fast, spray-applied polyurea coating assures high mechanical strength. And, by spraying the

fillers needed to provide the surface's anti-slip texture at the same time, a significant amount of labor is saved, making it possible to prime, finish and seal in one day. Finishing options are available in both polyaspartic and polyurethane technology.

Sikafloor® OneShot solutions are commonly found in:

- Car parks
- Bridge decks

Sikafloor® HardTop



Concrete surface hardening, curing and sealing and heavy-duty industrial screeds, by Sika. Our dry shake Sikafloor® powders are broadcasted directly onto the fresh concrete – before the powerfloat finish is applied – to

create an extremely hard-wearing, monolithic concrete floor. Additional performance can be achieved through various liquid-applied surface hardeners, curing compounds and surface sealers.

Sikafloor® HardTop solutions are commonly found in:

- Storage, logistics and sales areas
- Non-critical, heavy-duty industrial areas such as dry processing facilities
- Car parks

Sikafloor® Level



Subfloor preparation and leveling solutions, by Sika. To assure compatibility of base floor preparation materials with final, high-end synthetic finishes, Sika offers a full range of leveling underlayments. Professional

flooring contractors and general construction craftsmen recognize Sika leveling compounds for excellent performance and workability. Each underlayment has a matching range of primers to ensure solid performance on different types of substrates, both in new and refurbishment projects. We offer

solutions for absorbing cementitious and calcium-based slabs, and solutions to go over existing ceramic tile or synthetic flooring.

When time is of the essence, we can help to reduce your project lead time with the Sika® Level Rapid solution. This system's fast-drying properties typically enable underlayment and overlaying on the same day.

Sikafloor® Level systems can be used in combination with our own Sika ComfortFloor®, Sikafloor® MultiDur, Sikafloor® DecoDur and Sikafloor® MultiFlex flooring solutions and with a wide variety of common commercial floors. Within our SikaBond® family, you'll find adhesives for synthetic, textile and wood flooring systems.

Sikagard® WallCoat



A wall coat that blends specific, engineered performance requirements with decorative designs, by Sika. When you need more than just paint, our family of Sikagard® WallCoat performance and decorative wall coating systems

delivers unique benefits for demanding surface finishing. Chemical resistance. Heavy-duty mechanical resistance. The ability to withstand chemicals used in cleaning regimes. In-film preservatives providing finishes that do not promote the development of fungi, bacteria and other micro organisms. Sikagard® WallCoat solutions do it all. Easily.



Sikagard® WallCoat solutions are commonly found in:

- Cleanroom certified areas
- Food and beverage processing facilities
- Hospitals and laboratories
- Concrete surface protection
- Tunnels
- Commercial, institutional and residential interior finishing

Sikafloor® SOLUTIONS FOR STORAGE, LOGISTICS AND SALES AREAS

LARGE QUANTITIES OF GOODS have to be produced, distributed and delivered quickly and on time for an efficient economy to function. In the manufacturing industries where these goods are handled and stored, the warehouses, their loading bays etc., all need to have their floors designed and installed to suit the specific conditions of each area's operation.

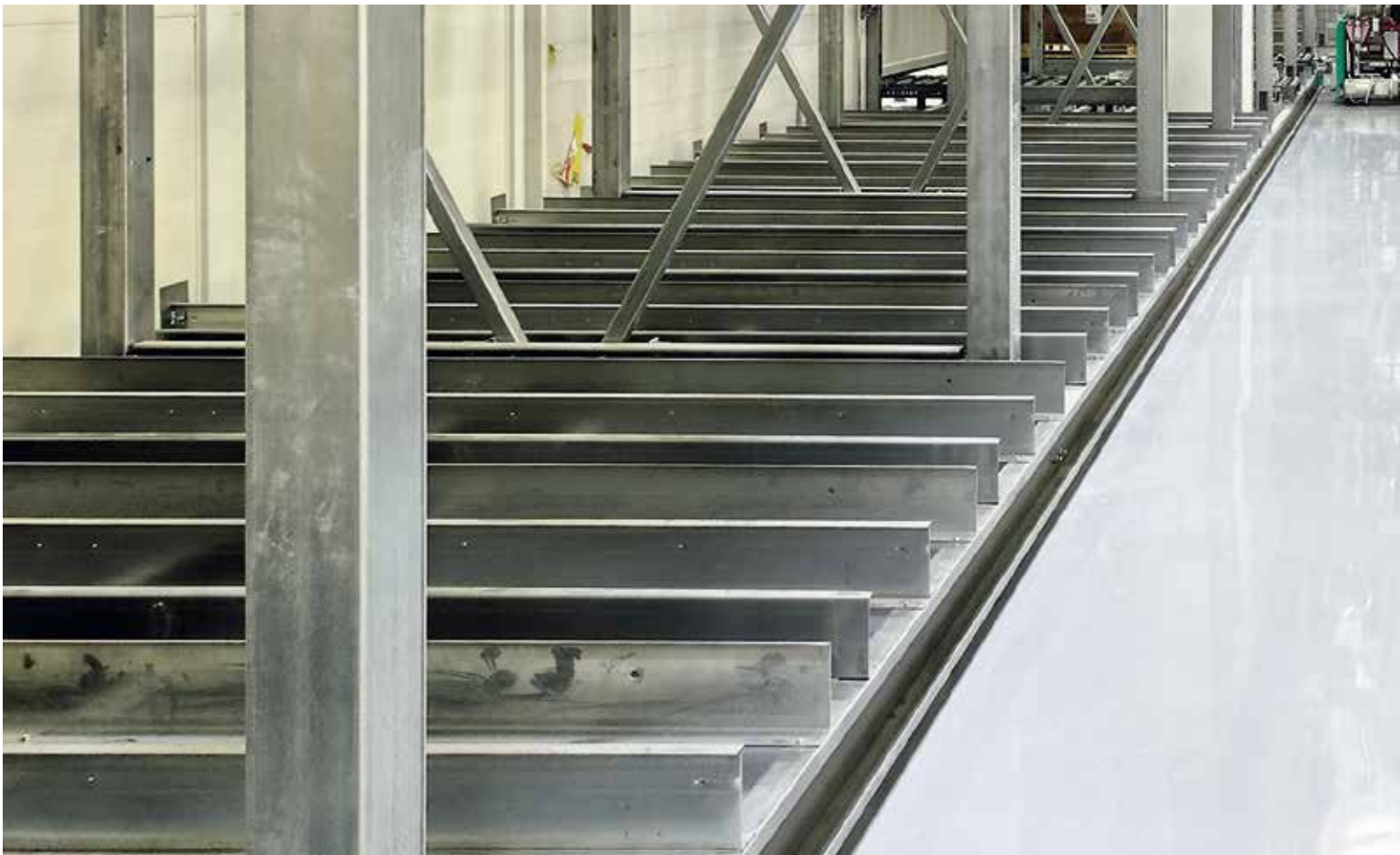
It is always essential to ensure that the stresses imposed are all able to be safely accommodated by the flooring system. Therefore, fully understanding each area's operations and then defining all of the performance requirements for the floor is the most important. This includes the required mechanical impact, abrasion and chemical resistance, thermal exposure plus ease of cleaning, and dust prevention, etc.

NEW BUILDINGS

Concrete slabs produced from mix designs using admixtures such as Sikament® or Sika® ViscoCrete® SCC technology form a sound foundation and allow accurate levels with the necessary falls to be achieved. Sikafloor® “dry shake” solutions as

the name suggests, are applied as dry powders directly onto the surface of the freshly laid concrete, where they are power float finished, and then harden monolithically with the base concrete. This creates an integrated and extremely hard-wearing floor. Concrete curing agents, plus surface hardening and sealing compounds complete the Sikafloor® range.

Additionally, Sika® EpoCem® technology can be used on relatively new “green” or existing damp concrete, where it acts as a temporary moisture barrier to reduce waiting times for the application of vapour-tight floor systems.



REFURBISHMENT

Cementitious, self-smoothing, pumpable Sikafloor® screeds and Sikafloor® Level are used to provide a uniform and level surface for the application of floor finishes. The vapour permeable and rapid drying screeds provide very economic solutions.

Sika® EpoCem® Technology is again frequently used in refurbishment projects when the existing floors have rising or high moisture contents but need to be over-coated quickly.

RACKING AREAS

Sikafloor® solutions provide a bright colored floor that can be installed in a wide range of thicknesses and with a variety of surface textures. These floors are seamless, non-porous and non-dusting, with good chemical resistance. Their properties make the floor hygienic and easy to clean as well as being hard and very durable, so they are ideally suited for use in dry process and racked storage areas.

MANY ONGOING DAILY ACTIVITIES INCLUDING: FORKLIFT OR PALLET TRUCK TRAFFIC CARRYING HEAVY LOADS, PALLETS AND BOXES BEING DRAGGED ACROSS THE FLOOR, STRICT TEMPERATURE REQUIREMENTS FOR CERTAIN GOODS, ETC.




COLD STORAGE AREAS

Sikafloor® solutions can provide durable flooring solutions for cold storage areas even under the most severe conditions with extreme mechanical, chemical and thermal exposure.




STORAGE, LOGISTICS AND SALES AREAS



SYSTEM	Sikament® or Sika® ViscoCrete®	Sikafloor® EpoCem®	Sikafloor® EpoCem®
			
DESCRIPTION	Concrete slab with power-float finished screed for accurate levels	Self-smoothing temporary moisture barrier on "green" or damp concrete	Self-smoothing temporary moisture barrier on "green" or damp concrete in high thickness
NOMINAL THICKNESS / LAYERS	2	2 – 7 mm	> 8 mm
CHARACTERISTICS	<ul style="list-style-type: none"> ■ Fine and level tolerances 	<ul style="list-style-type: none"> ■ Self-smoothing for concrete floors with a damaged or missing waterproof membrane ■ Reduced waiting time to overcoat green concrete ■ No blistering in vapour tight floor toppings when coating damp concrete 	<ul style="list-style-type: none"> ■ For concrete floors with a damaged or missing waterproof membrane ■ Reduced waiting time to overcoat green concrete ■ No blistering in vapour tight floor toppings when coating damp concrete
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikament® or Sika® ViscoCrete® slab ■ Sika® polymer modified cement ■ Sika® polymer modified cement 	<ul style="list-style-type: none"> ■ Sikafloor®-155 WN/-160/ EpoCem® Module Primer ■ Sikafloor®-81/-82 EpoCem® 	<ul style="list-style-type: none"> ■ SikaTop® Armatec-110 EpoCem® ■ Sikafloor®-83 EpoCem®



* Note: 1) The 3D graphics in this brochure are not to scale and they are only intended to illustrate the system build-ups.
 2) The symbols such as  represent typical project related performance requirements and these are all listed and discussed on pages 74 to 75 of this brochure.



SYSTEM FAMILY

Sikafloor® HardTop

Sikafloor® HardTop

Sikafloor® HardTop



DESCRIPTION

Monolithic finish for concrete floors

Tough monolithic finish for concrete floors

Heavy duty monolithic finish for concrete floors

NOMINAL THICKNESS/ LAYERS

2.5 - 3 mm

2.5 - 3 mm

2.5 - 3 mm

1 - 2

1 - 2

1 - 2

CHARACTERISTICS

- Economic surface hardening
- Good abrasion resistance
- Good impact resistance
- Color options

- Tough and durable
- Very good abrasion resistance
- Very good impact resistance
- Color options

- Excellent abrasion resistance
- Excellent impact resistance
- Extremely high durable
- Non corroding metallic finish
- Color options

SYSTEM COMPONENTS

- Sikament® or Sika® ViscoCrete® slab
- Sikafloor®-3 QuartzTop
- Sikafloor® ProSeal W/ ProSeal 22

- Sikament® or Sika® ViscoCrete® slab
- Sikafloor®-2 SynTop
- Sikafloor® ProSeal W/ ProSeal-22

- Sikament® or Sika® ViscoCrete® slab
- Sikafloor®-1 MetalTop
- Sikafloor® ProSeal-22





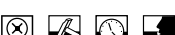
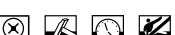


STORAGE, LOGISTICS AND SALES AREAS



SYSTEM FAMILY	Sikafloor® HardTop	Sikafloor® HardTop	Sikafloor® HardTop	Sikafloor® Level
DESCRIPTION	Surface hardener for concrete floors	Water based curing and sealing compound for concrete floors	Solvent based curing and sealing compound for concrete floors	Cementitious, vapour permeable, self smoothing screed
NOMINAL THICKNESS / LAYERS	< 1 mm 1 - 2	< 1 mm 1 - 2	> 1 mm 1 - 2	4 - 30 mm 3
CHARACTERISTICS	<ul style="list-style-type: none"> ■ Economic surface hardening ■ Good abrasion resistance ■ Prevent surface dusting 	<ul style="list-style-type: none"> ■ Surface sealing ■ Curing to ASTM C-309 ■ Prevent surface dusting ■ Very low VOC 	<ul style="list-style-type: none"> ■ Surface sealing and hardening ■ Curing to ASTM C-309 ■ Prevent surface dusting ■ Fast film formation 	<ul style="list-style-type: none"> ■ Smooth and level surface ■ Rapid drying ■ Vapour permeable ■ Low to medium thickness
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikafloor® CureHard 24 or CureHard LI 	<ul style="list-style-type: none"> ■ Sikafloor® ProSeal W 	<ul style="list-style-type: none"> ■ Sikafloor® ProSeal 22 	<ul style="list-style-type: none"> ■ Sikafloor®-155 WN or -160 (+ quartz sand broadcast) or SikaLevel®-01 Primer ■ Sikafloor® Level-30 ■ Sikafloor®-2540 W or -2550 W



SYSTEM FAMILY	Sikafloor® HardTop CS StainProtect	Sikafloor® HardTop CS ColourSeal	Sikafloor® HardTop CS Rapid
			
DESCRIPTION	Cementitious, rapid hardening, high strength, stain protected floor levelling screed and repair mortar system for industrial floors with a transparent sealer	Sikafloor® HardTop CS-56 ColourSeal is a cementitious, rapid hardening, high strength, sealed floor levelling screed and repair mortar system for industrial floors with a colored impregnating seal coat	Sikafloor® HardTop CS-56 Rapid is a cementitious, rapid hardening, high strength, floor levelling screed and repair mortar system for industrial floors with different resin top coat options
NOMINAL THICKNESS / LAYERS	8 - 200 mm	8 - 200 mm	8 - 200 mm
CHARACTERISTICS	<ul style="list-style-type: none"> ■ Rapid hardening screed ■ High mechanical resistance ■ Reduced penetration of liquids such as grease, oils and water 	<ul style="list-style-type: none"> ■ Rapid hardening screed ■ High mechanical resistance ■ Coloured sealer which reduces penetration of liquids such as grease, oils and water 	<ul style="list-style-type: none"> ■ Rapid hardening screed ■ High mechanical resistance ■ Primed with Sikafloor-161 fully broadcasted the same day
SYSTEM COMPONENTS	<p>Sikafloor® HardTop CS-56 StainProtect (8 - 80 mm)</p> <ul style="list-style-type: none"> ■ SikaScreed®-20 EBB ■ Screed SikaScreed® HardTop-60, or SikaScreed® HardTop-60 DE ■ Sikagard®-914 W Stainprotect Primer (if required) and / or Sikagard®-915 Stainprotect <p>Sikafloor® HardTop CS-57 StainProtect (10 - 200 mm)</p> <ul style="list-style-type: none"> ■ SikaScreed®-10 BB or SikaScreed®- 20 EBB ■ Screed SikaScreed® HardTop-70, or SikaScreed® HardTop-70 DE ■ Sikagard®-914 W Stainprotect Primer (if required) and / or Sikagard®-915 Stainprotect 	<p>Sikafloor® HardTop CS-56 ColourSeal (8 - 80 mm)</p> <ul style="list-style-type: none"> ■ SikaScreed®- 20 EBB ■ Screed SikaScreed® HardTop-60, or SikaScreed® HardTop-60 DE ■ Sikagard®-916 Hybrid <p>Sikafloor® HardTop CS-57 ColourSeal (10 - 200 mm)</p> <ul style="list-style-type: none"> ■ SikaScreed®-10 BB or SikaScreed®- 20 EBB ■ Screed SikaScreed® HardTop-70, or SikaScreed® HardTop-70 DE ■ Sikagard®-916 Hybrid 	<p>Sikafloor® HardTop CS-56 Rapid (8 - 80 mm)</p> <ul style="list-style-type: none"> ■ SikaScreed®- 20 EBB ■ Screed SikaScreed® HardTop-60, or SikaScreed® HardTop-60 DE ■ Sikafloor-161 fully broadcasted with Quartsand <p>Sikafloor® HardTop CS-57 Rapid (10 - 200 mm)</p> <ul style="list-style-type: none"> ■ SikaScreed®-10 BB or SikaScreed®- 20 EBB ■ Screed SikaScreed® HardTop-70, or SikaScreed® HardTop-70 DE ■ Sikafloor-161 fully broadcasted with Quartsand
			

STORAGE, LOGISTICS AND SALES AREAS



SYSTEM	Sikafloor® MultiDur WS-10	Sikafloor® MultiDur ET-14 ET-14 N	Sikafloor® MultiDur ES-24 ES-24 N
DESCRIPTION	Double water based epoxy roller coat	Textured unicolor epoxy roller coat	Smooth unicolor epoxy floor covering
NOMINAL THICKNESS / LAYERS	< 1 mm 2	< 1 mm 2	2 - 3 mm 2
CHARACTERISTICS	<ul style="list-style-type: none"> ■ Light to medium wear resistance ■ Surface stabilization ■ Prevent surface dusting ■ Color options 	<ul style="list-style-type: none"> ■ Good wear and abrasion resistance ■ Good chemical resistance ■ Slip resistant ■ Easy cleaning ■ Color options 	<ul style="list-style-type: none"> ■ High wear and abrasion resistance ■ Good impact resistance ■ Good chemical resistance ■ Medium thermal shock resistance ■ Easy cleaning ■ Color options
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikafloor®-2540 W or -2550 W ■ Sikafloor®-2540 W or -2550 W 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-264 Thixo/-264 Thixo LO/-264 N Thixo/-264 N Thixo LO 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-263 SL/-263 SL LO/-263 SL N/-263 SL N LO





SYSTEM	Sikafloor® MultiDur EB-14 ECC / EB-14 N ECC	Sikafloor® MultiDur EB-24 EB 24 N	Sikafloor® MultiFlex PS-32	Sikafloor® PurCem® HM-20
DESCRIPTION	Broadcast unicolour epoxy floor covering thin layer over epoxy hybrid screed	Broadcast unicolor epoxy floor covering	Smooth unicolor tough elastic polyurethane floor covering	Heavy-duty, lightly textured, high chemical, mechanical and temperature resistant polyurethane cementitious hybrid screed
NOMINAL THICKNESS / LAYERS	2 - 4 mm 3	2 - 4 mm 3	2 - 3 mm 2	6 - 9 mm 1 - 2
CHARACTERISTICS	<ul style="list-style-type: none"> ■ Cold storage (> -10°C) ■ High wear resistance ■ Good mechanical resistance ■ Medium thermal shock resistance ■ Slip resistant ■ Color options 	<ul style="list-style-type: none"> ■ Cold storage (> -10°C) ■ High wear resistance ■ Good mechanical resistance ■ Medium thermal shock resistance ■ Slip resistant ■ Color options 	<ul style="list-style-type: none"> ■ Frost / blast freezing resistant (> -20°C) ■ Tough elastic ■ High wear resistance ■ Easy cleaning ■ Color options ■ Low VOC 	<ul style="list-style-type: none"> ■ Highly frost / blast freezing resistant (> -40°C) ■ Heavy duty screed, high wear resistance ■ High chemical resistance ■ Thermal shock resistance ■ Easy cleaning (steam cleaning resistant) ■ Slip resistant ■ Color options ■ Low VOC, low odor
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikafloor®-155 WN/-160 / EpoCem® Module Primer ■ Sikafloor®-81 EpoCem® ■ Quartz sand (0.4 - 0.7 mm) ■ Sikafloor®-264/-264 LO/-264 N/-264 N LO 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-263 SL/-263 SL LO/-263 SL N/-263 SL N LO ■ Quartz sand (0.4 - 0.7 mm) ■ Sikafloor®-264/-264 LO/-264 N/-264 N LO 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-3240/-324 	<ul style="list-style-type: none"> ■ If required: Sikafloor®-156/-161/-160/-150/-151 (+ quartz sand broadcast) ■ Sikafloor®-20 PurCem®

Sikafloor® SOLUTIONS FOR PRODUCTION AND PROCESSING AREAS

THE BIGGEST CHALLENGES FOR flooring systems in manufacturing facilities are generally in the production areas. These floors not only have to withstand severe exposure, including mechanical, chemical and thermal stresses, but also need to provide the right degree of slip resistance to meet health and safety requirements.

The Sikafloor® systems applied in production areas are based predominantly on Cement, Epoxy and Polyurethane resin technologies, which are developed in our laboratories from more than 50 years of practical experience. For special requirements, different binder and filler systems are combined to achieve specific properties, e.g. polyurethane and cement in the Sikafloor® PurCem® range for high temperature and chemical resistance in wet environments.

DRY AND WET AREAS

Most production areas can be divided into 'dry' or 'wet' processing areas. Flooring systems in 'wet' process areas

generally require a higher degree of slip-resistance, which must also be easily cleaned, and yet be resistant to the water and any chemical exposure. In the production areas of the food and beverage industries in particular, a clean floor is obviously of crucial importance to facilitate the necessary hygienic working environment.

'Dry' processing areas also often require a balance or compromise to be made between ease of cleaning and slip resistance to meet the requirements for efficiency and hygiene, plus health and safety.



**AREAS WITH EXTREME EXPOSURE
(COMBINATIONS OF WET CONDITIONS, CHEMICALS,
TEMPERATURES AND ABRASION)**

Sika has a complete range of flooring solutions for industrial facilities that are required to be durable under extreme exposures and conditions of use. These conditions can vary from severe chemical attack with thermal shock exposure in the food industry, to high point loading and abrasion in the automotive industry.

The Sikafloor® PurCem® range will perform under the most demanding service environments and can meet all of these and many other different individual exposure requirements with design flexibility. This includes a full range of non-slip / anti-skid profiles.

MINIMUM DOWNTIME FOR PRODUCTION

Each day or even each hour of downtime in production can be very expensive in both new construction and in refurbishment projects. It is always therefore essential to finish all

**USING THE FAST CURING
Sikafloor® Pronto SYSTEMS
FOR FLOOR MAINTENANCE AND
REFURBISHMENT PROJECTS
CAN REDUCE DOWN TIME TO
MINIMUM.**

of the flooring work within the shortest possible time, but still ensuring the required performance and durability. Using the fast curing Sikafloor® Pronto systems for floor maintenance and refurbishment projects can reduce down time to a minimum. Sikafloor® systems can also be designed to withstand all of the other requirements and conditions with various degrees of slip resistance and surfaces that are easy to clean.



PRODUCTION AND PROCESSING AREAS

Dry areas



SYSTEM	Sikafloor® MultiDur ES-14 ES-14 N	Sikafloor® MultiDur ET-14 ET-14 N	Sikafloor® MultiDur ES-24 ES-24 N
DESCRIPTION	Unicolor epoxy roller coat	Textured unicolor epoxy roller coat	Smooth unicolor epoxy floor covering
NOMINAL THICKNESS / LAYERS	< 1 mm 2	< 1 mm 2	2 - 3 mm 2
CHARACTERISTICS	<ul style="list-style-type: none"> ■ Good wear and abrasion resistance ■ Good chemical resistance ■ Easy to clean ■ Color options 	<ul style="list-style-type: none"> ■ Good wear and abrasion resistance ■ Good chemical resistance ■ Slip resistant ■ Easy to clean ■ Color options 	<ul style="list-style-type: none"> ■ High wear and abrasion resistance ■ Good impact resistance ■ Good chemical resistance ■ Easy to clean ■ Color options
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-264/-264 LO/-264 N/-264 N LO 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-264 Thixo/-264 Thixo LO/-264 N Thixo/-264 N Thixo LO 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-263 SL/-263 SL LO/-263 SL N/-263 SL N LO

* Note: 1) The 3D graphics in this brochure are not to scale and they are only intended to illustrate the system build-ups.
2) The symbols such as represent typical project related performance requirements and these are all listed and discussed on pages 50 to 52 of this brochure.



SYSTEM	Sikafloor® MultiDur ES-31	Sikafloor® MultiDur ES-23 ES-23 N	Sikafloor® MultiDur ES-39	Sikafloor® MultiFlex PS-32
DESCRIPTION	Smooth unicolor epoxy floor covering	Smooth unicolor epoxy floor covering	Smooth unicolor epoxy floor covering	Smooth unicolor tough elastic polyurethane floor covering
NOMINAL THICKNESS / LAYERS	2 - 3 mm 2	2 - 3 mm 3	2 - 3 mm 2	2 - 3 mm 2
CHARACTERISTICS	<ul style="list-style-type: none"> ■ High wear resistance ■ High chemical resistance ■ Color options 	<ul style="list-style-type: none"> ■ High wear resistance ■ High chemical resistance ■ Color options 	<ul style="list-style-type: none"> ■ Crack bridging ■ High chemical resistance ■ Color options 	<ul style="list-style-type: none"> ■ Frost / blast freezing resistant (> -20°C) ■ Tough elastic ■ High wear resistance ■ Easy cleaning ■ Color options ■ Low VOC
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-381 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-263 SL/-263 SL LO/-263 SL N LO/-264/-264 LO/-264 N/-264 N LO ■ Sikafloor®-316 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-390 N 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-3240/-324

PRODUCTION AND PROCESSING AREAS

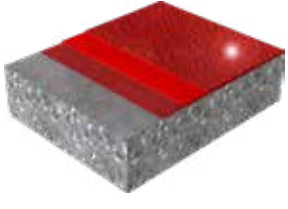
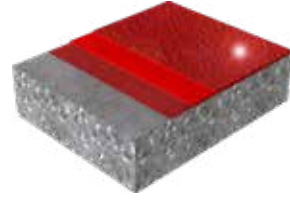
Wet areas

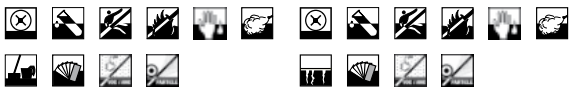


SYSTEM	Sikafloor® MultiDur ET-14 ET-14 N	Sikafloor® DecoDur EB-26 Quartz	Sikafloor® MultiDur EB-24 EB-24 N
DESCRIPTION	Slip resistant, textured unicolor epoxy roller coat	Slip resistant low VOC color quartz broadcasted epoxy floor covering	Slip resistant broadcast unicolor epoxy floor covering
NOMINAL THICKNESS / LAYERS	< 1 mm 2	2 – 3 mm 3	2 – 4 mm 3
CHARACTERISTICS	<ul style="list-style-type: none"> ■ Good wear and abrasion resistance ■ Good chemical resistance ■ Slip resistant ■ Easy cleaning ■ Color options 	<ul style="list-style-type: none"> ■ Food contact compliant ■ Low particle emissions ■ Colored sand effects ■ Good mechanical resistance ■ Slip resistant ■ Low VOC 	<ul style="list-style-type: none"> ■ Cold storage (> -10°C) ■ High wear resistance ■ Good mechanical resistance ■ Slip resistant ■ Color options
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-264 Thixo / -264 Thixo LO / -264 N Thixo / -264 N Thixo LO 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-263 SL / -263 SL LO / -263 SL N / -263 SL N LO / -264 / -264 LO / -264 N / -264 N LO ■ Colored quartz sand (0.3 – 0.8 or 0.7 – 1.2 mm) ■ Sikafloor®-169 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-263 SL / -263 SL LO / -263 SL N / -263 SL N LO ■ Quartz sand (0.4 – 0.7 mm) ■ Sikafloor®-264 / -264 LO / -264 N / -264 N LO

* Note: 1) The 3D graphics in this brochure are not to scale and they are only intended to illustrate the system build-ups.
2) The symbols such as represent typical project related performance requirements and these are all listed and discussed on pages 50 to 52 of this brochure.



SYSTEM	Sikafloor® MultiDur EB-31	Sikafloor® MultiDur EB-39
		
DESCRIPTION	Broadcast unicolor epoxy floor covering over epoxy hybrid screed with high chemical resistance	Broadcast unicolor epoxy floor covering over epoxy hybrid screed with high chemical resistance
NOMINAL THICKNESS / LAYERS	2 - 3 mm 3	2 - 3 mm 3
CHARACTERISTICS	<ul style="list-style-type: none"> ■ High wear ■ High chemical resistance ■ Color options 	<ul style="list-style-type: none"> ■ Crack bridging ■ High chemical resistance ■ Color options
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-381 ■ Quartz sand (0.4 - 0.7 mm) ■ Sikafloor®-381 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-390 N ■ Quartz sand (0.4 - 0.7 mm) ■ Sikafloor®-390 N



PRODUCTION AND PROCESSING AREAS

Extreme exposure

(Combinations of wet conditions, chemicals, temperatures and abrasion)



SYSTEM	Sikafloor® PurCem® HM-20	Sikafloor® PurCem® HM-20 HSR	Sikafloor® PurCem® HS-21	Sikafloor® PurCem® HB-22
DESCRIPTION	Heavy-duty, lightly textured, high chemical, mechanical and temperature resistant polyurethane cementitious hybrid screed	Heavy-duty, lightly textured, high chemical, mechanical and temperature resistant polyurethane cementitious hybrid screed	Medium- to heavy-duty, self-leveling, smooth polyurethane cementitious hybrid screed	Medium- to heavy-duty, broadcasted, medium anti-slip polyurethane cementitious hybrid screed
NOMINAL THICKNESS / LAYERS	6 - 9 mm 1 - 2	9 mm 1 - 2	4,5 - 6 mm 2	4,5 - 6 mm 2 - 4
CHARACTERISTICS	<ul style="list-style-type: none"> Highly frost / blast freezing resistant (> -40°C) Heavy duty screed, high wear resistance High chemical resistance Thermal shock resistance Easy cleaning (steam cleaning resistant) Slip resistant Color options Low VOC, low odor 	<ul style="list-style-type: none"> Highly frost / blast freezing resistant (> -40°C) Heavy duty screed, high wear resistance High chemical resistance Thermal shock resistance Easy cleaning (steam cleaning resistant) High Slip resistant Color options Low VOC, low odor 	<ul style="list-style-type: none"> Highly frost / blast freezing resistant (> -40°C) Heavy duty screed, high wear resistance High chemical resistance Thermal shock resistance Easy cleaning Slip resistant Color options Low VOC, low odor 	<ul style="list-style-type: none"> Highly frost / blast freezing resistant (down to -40°C) Heavy duty screed, high wear resistance High chemical resistance Thermal shock resistance Hygienic Slip resistant Color options Low VOC, low odor
SYSTEM COMPONENTS	<ul style="list-style-type: none"> If required: Sikafloor®-156/-161/-160/-150/-151 (+ quartz sand broadcast) Sikafloor®-20 PurCem® 	<ul style="list-style-type: none"> If required: Sikafloor®-156/-161/-160/-150/-151 (+ quartz sand broadcast) Sikafloor®-20 PurCem® HSR 	<ul style="list-style-type: none"> Sikafloor®-21 PurCem® 	<ul style="list-style-type: none"> Sikafloor®-21/-22/-24 PurCem® Quartz sand (0.7 - 1.2 mm) Sikafloor®-31 PurCem®





SYSTEM	Sikafloor® PurCem® HS-26 Gloss	Sikafloor® PurCem® HS-21 Gloss	Sikafloor® PurCem® HB-22 Gloss
DESCRIPTION	Medium duty, gloss and smooth finish, polyurethane cement hybrid flooring system.	Extremely durable, gloss, scratch resistant, smooth and seamless polyurethane hybrid flooring system.	Medium to Heavy duty, medium texture, broadcasted, gloss finish polyurethane hybrid flooring system.
NOMINAL THICKNESS / LAYERS	1,5 - 3 mm 2	3 - 6 mm 2	4 - 7 mm 3
CHARACTERISTICS	<ul style="list-style-type: none"> ■ High mechanical resistance ■ Good chemical resistance ■ Glossy and scratch resistance surface ■ Extremely low dirt pick up ■ Easy clean and maintain ■ Non-tainting, odorless during application ■ VOC free and environmental friendly ■ Tolerant to moisture in the substrate ■ Very good life cycle cost performance ■ Color options 	<ul style="list-style-type: none"> ■ Good chemical resistance ■ Dense and scratch resistance surface ■ High mechanical resistance ■ Low dirt pick up ■ Easy to clean and maintain ■ VOC free and environmental friendly ■ Non tainting, odorless during application ■ Can be applied to substrates with high moisture tolerance ■ Very good life cycle cost performance ■ Color options 	<ul style="list-style-type: none"> ■ High mechanical resistance ■ Good chemical resistance ■ Glossy and scratch resistance surface ■ Low dirt pick up ■ Easy clean and maintain ■ Tolerant to moisture in the substrate ■ Anti-slip surface ■ Very good life cycle cost performance ■ Color options
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikafloor®-21/-24/-210/-260 ■ Sikafloor®-260 PurCem® 	<ul style="list-style-type: none"> ■ Sikafloor®-21/-24/-210/-260 PurCem® ■ Sikafloor®-210 PurCem® 	<ul style="list-style-type: none"> ■ Sikafloor®-260/-210 PurCem® ■ Quartz sand (0.7 - 1.2 mm) ■ Sikafloor®-310 PurCem®

PRODUCTION AND PROCESSING AREAS

Minimum down time for production



SYSTEM	Sikafloor® Pronto RB-34	Sikafloor® Pronto RS-34	Sikafloor® Pronto RB-24
DESCRIPTION	Broadcast, fast curing decorative system for dry areas	Broadcast, fast curing decorative system for dry areas	Broadcast, fast curing system for wet areas
NOMINAL THICKNESS / LAYERS	3 - 5 mm 3	2 - 4 mm 3	3 - 5 mm 3
CHARACTERISTICS	<ul style="list-style-type: none"> ■ Rapid curing ■ High wear resistance ■ Good chemical resistance ■ Slip resistant ■ Color options 	<ul style="list-style-type: none"> ■ Rapid curing ■ Good wear resistance ■ Good chemical resistance ■ Slip resistant ■ Color options ■ Decorative 	<ul style="list-style-type: none"> ■ Rapid curing ■ Good wear resistance ■ Good chemical resistance ■ Thermal shock resistance ■ Slip resistant
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikafloor®-10/-11/-13 Pronto ■ Sikafloor®-14 Pronto ■ Quartz sand (0.7 - 1.2 mm) ■ Sikafloor®-16 Pronto ■ Optional: Sikafloor®-Pronto pigments 	<ul style="list-style-type: none"> ■ Sikafloor®-10/-11/-13 Pronto ■ Sikafloor®-14 Pronto ■ Flakes ■ Sikafloor®-16 Pronto ■ Optional: Sikafloor®-Pronto pigments 	<ul style="list-style-type: none"> ■ Sikafloor®-10/-11/-13 Pronto ■ Sikafloor®-14 Pronto ■ Quartz sand (0.7 - 1.2 mm) ■ Sikafloor®-17 Pronto



SYSTEM	Sikafloor® Pronto RB-27	Sikafloor® Pronto RB-25	Sikafloor® Pronto RB-55
DESCRIPTION	Broadcast fast curing elastomeric system for cold storages, freezers and refrigerators	Elastomeric waterproofing system for flooring applications	Highly elastomeric waterproofing system for flooring applications
NOMINAL THICKNESS / LAYERS	3 - 5 mm 3	3 - 5 mm 3	5 - 7 mm 4
CHARACTERISTICS	<ul style="list-style-type: none"> ■ Rapid curing ■ Good wear resistance ■ Good chemical resistance ■ Thermal shock resistance ■ Slip resistant ■ Color options 	<ul style="list-style-type: none"> ■ Crack bridging ■ Rapid curing ■ Good wear resistance ■ Good chemical resistance ■ Slip resistant ■ Color options 	<ul style="list-style-type: none"> ■ Highly crack bridging ■ Rapid curing ■ Good wear resistance ■ Good chemical resistance ■ Slip resistant ■ Color options
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikafloor®-10/-11/-13 Pronto ■ Sikafloor®-15 Pronto ■ Quartz sand (0.7 - 1.2 mm) ■ Sikafloor®-17 Pronto ■ Optional: Sikafloor®-Pronto pigments 	<ul style="list-style-type: none"> ■ Sikafloor®-10/-11/-13 Pronto ■ Sikafloor®-15 Pronto ■ Quartz sand (0.7 - 1.2 mm) ■ Sikafloor®-18 Pronto 	<ul style="list-style-type: none"> ■ Sikafloor®-10/-11/-13 Pronto ■ Sikafloor®-15 Pronto ■ Sika Reemat Premium ■ Sikafloor®-15 Pronto ■ Quartz sand (0.7 - 1.2 mm) ■ Sikafloor®-18 Pronto

Sikafloor[®], Sikaflex[®] and Sikagard[®] SOLUTIONS FOR CLEANROOM AREAS

IN RECENT YEARS SIKA has developed a new generation of advanced flooring, wall coating and joint sealant solutions for cleanroom environments. Manufacturing under cleanroom conditions is becoming increasingly more widespread and demanding, with particular regard to VOC / AMC emissions (Volatile Organic Compounds / Airborne Molecular Contaminants), particle emissions and biological contamination.

The number of products which have to be produced and processed under cleanroom conditions is constantly growing, from electronics and automotive components to food, pharmaceuticals and cosmetics. In many of these industries, cleanroom manufacturing plus a high degree of component cleanliness are now essential to achieve their desired product quality.

Many Sikafloor[®], Sikagard[®] and Sikaflex[®] systems are the 'State of the Art' in cleanroom solutions, specifically developed and certified for cleanroom environments ranging from those in the Semi-conductor and Electronics industries to those in the Life Science industries. Therefore we are the ideal partner to help you select the best solutions for your individual processes and cleanroom requirements and with the unique CSM product qualification.

CERTIFICATION

Most of the Sikafloor[®], Sikagard[®] and Sikaflex[®] systems in this brochure are tested and certified for their use in a cleanroom environment.

Furthermore, in depth test reports and proof statements are available for each certified product or system, which contain all of the relevant information regarding the testing parameters and standards. Please ask your local Sika representative for specific details and you can also refer to the public database of the Fraunhofer IPA Institute where all of the tested and certified Sika solutions are listed:
www.tested-device.com



© Fraunhofer IPA



CLEANROOM SUITABLE MATERIALS CSM

CSM – Cleanroom Suitable Materials are the world's first standardised product qualifications according to the ISO 14644 and GMP standards for all cleanroom and life science markets.

The Fraunhofer IPA founded the Industrial Alliance CSM and organises their main work topics and coordinates the required research, including the



recording and analysis of all relevant data. The aim of founding the industrial alliance "Cleanroom Suitable Materials" was to form a sound scientific basis for assessing the cleanroom suitability of materials and for determining the material selection criteria for cleanroom applications. Sika was a founding member of this alliance and plays an active role in the development of these standards and regulations.

CSM – CERTIFIED CLEANROOM SUITABLE MATERIALS FOR SPECIFIC INDUSTRIES

LIFE SCIENCE INDUSTRIES

The following industries are particularly aware of particle emissions and biological resistance according to the global GMP standard.

- Food
- Biotechnology
- Medical devices
- Pharmaceuticals



3. * Chemical resistance depends very much on the process and the cleaning regime, which needs to be checked individually. Please refer to the Sikafloor® Chemical Resistance Chart available from your local Sika Organisation.

Requirements

1. Low particle emissions
2. Biological resistance
3. Chemical resistance*
4. Conductivity

Sika Solutions:

One label contains all the information for clients or specifiers working in the cleanroom industries!

ELECTRONICS AND RELATED INDUSTRIES

The following industries are particularly aware of particle and TVOC emissions according to the global ISO 14644 standard.

- Solar panels
- Hard discs
- Flat panel screens
- Semiconductors
- Optical equipment
- Microsystems
- Automotive
- Aerospace



3. * Chemical resistance depends very much on the process and the cleaning regime, which needs to be checked individually. Please refer to the Sikafloor® Chemical Resistance Chart available from your local Sika Organisation.

Requirements

1. Low particle emissions
2. Low VOC emissions
3. Chemical resistance*
4. Conductivity

Sika Solutions:

One label contains all the information for clients or specifiers working in the cleanroom industries!



CLEANROOM AREAS

Examples for the electronic and related industries



SYSTEM	Sikagard® Wallcoat WS-11	Sikaflex® Sealant	Sikafloor® MultiDur ES-28 ECF/EQ
DESCRIPTION	Epoxy based high performance wall coating solution	1-Part polyurethane floor joint sealing solution	Smooth, Ultra-low VOC, Electric conductive floor covering
NOMINAL THICKNESS / LAYERS	< 0.5 mm 2		~ 2 mm 3
CHARACTERISTICS	<ul style="list-style-type: none"> ■ ISO 14644 Compliant ■ Good chemical resistance ■ Smooth surface ■ Low VOC ■ Biological resistant ■ Color options 	<ul style="list-style-type: none"> ■ ISO 14644 Compliant ■ Good chemical resistance ■ Excellent adhesion ■ Low VOC 	<ul style="list-style-type: none"> ■ ISO 14644 Compliant ■ Good chemical resistance ■ Electrostatically conductive ■ Low particle emissions ■ Smooth surface ■ Ultra low VOC ■ Color options
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikagard® Wallcoat N ■ Sikagard® Wallcoat N 	<ul style="list-style-type: none"> ■ Sikaflex® Pro 3 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151/-701 ■ Sika Earthing Kit ■ Sikafloor®-220 W Conductive ■ Sikafloor®-269 ECF CR

Examples for life science industries



SYSTEM	Sikagard® Wallcoat AL-12 Hygienic	Sikaflex® Sealant	Sikafloor® DecoDur ES-22 Granite	Sikafloor® MultiDur ES-24 EQ
DESCRIPTION	High performance hygienic wall coating system which does not promote growth of micro-organisms through in-film preservative	1-Part polyurethane hybrid based sealing solution for construction, connection and isolation joints	Smooth low VOC colored granite effect epoxy floor covering	Smooth low VOC epoxy floor covering
NOMINAL THICKNESS / LAYERS	~ 1 mm 3		2 - 3 mm 3	2 - 3 mm 2
CHARACTERISTICS	<ul style="list-style-type: none"> ■ GMP Compliant ■ Biological resistance ■ Hygienic ■ Resistant to disinfectants ■ Color options 	<ul style="list-style-type: none"> ■ GMP Compliant ■ Biological resistance ■ Odorless ■ Resistant to disinfectants 	<ul style="list-style-type: none"> ■ Food contact compliant ■ Low particle emissions ■ Colored granite effects ■ Designer aesthetics ■ Medium slip resistance optional ■ Low VOC ■ Color options 	<ul style="list-style-type: none"> ■ Ultra low VOC ■ Low particle emissions ■ Smooth surface ■ Good chemical resistance ■ Medium slip resistance ■ Low odor ■ Color options
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikagard®-403 W + 5% Water ■ Sikagard®-403 W ■ Reemat premium ■ Reemat Lite ■ Sikagard®-405 W/-406 W/-207 W 	<ul style="list-style-type: none"> ■ Sikaflex® AT Connection 	<ul style="list-style-type: none"> ■ Sikafloor®-264/-264 LO/-264 N/-264 N LO ■ Sikafloor®-169 ■ Sikafloor®-DecoFiller ■ Sikafloor®-304 W 	<ul style="list-style-type: none"> ■ Sikafloor®-701/-144 ■ Sikafloor®-721

Sikafloor® DECORATIVE SOLUTIONS

THE DECORATIVE FLOORING SOLUTIONS from Sika allow the creation of an almost unlimited combination of functional and aesthetic requirements. The results of this flexibility in design are rooms so unique and distinctive that people really like and appreciate living and working there.



BROADCAST FLAKE



FULL FLAKE



GRANITE



COMPACT / QUARTZ





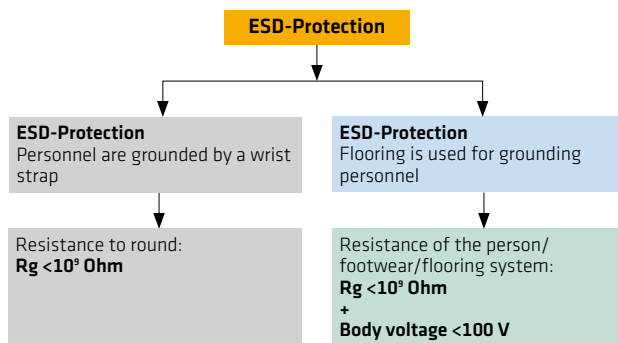
SYSTEM	Sikafloor® DecoDur ES-22 Granite	Sikafloor® DecoDur ES-26 Flake	Sikafloor® DecoDur EB-26 Quartz	Sikafloor® DecoDur EM-21 Compact
DESCRIPTION	Smooth low VOC colored granite effect epoxy floor covering	Smooth low VOC colored full flaked epoxy floor covering	Slip resistant low VOC color quartz broadcasted epoxy floor covering	Smooth high resistant power floated broadcast color quartz epoxy screed
NOMINAL THICKNESS / LAYERS	2 - 3 mm 3	2 - 3 mm 4	2 - 3 mm 3	~ 3 mm 4
CHARACTERISTICS	<ul style="list-style-type: none"> ■ Food contact compliant ■ Low particle emissions ■ Colored granite effects ■ Designer aesthetics ■ Medium slip resistance optional ■ Low VOC ■ Color options 	<ul style="list-style-type: none"> ■ Food contact compliant ■ Low particle emissions ■ Colored flake effects ■ Medium slip resistance optional ■ Low VOC ■ Color options 	<ul style="list-style-type: none"> ■ Food contact compliant ■ Low particle emissions ■ Colored sand effects ■ Good mechanical resistance ■ Slip resistant ■ Low VOC ■ Color options 	<ul style="list-style-type: none"> ■ Food contact compliant ■ Low particle emissions ■ Colored sand effects ■ High mechanical resistance ■ High impact resistance ■ Slip resistance optional ■ Low VOC ■ Color options
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikafloor®-264/-264 LO/-264 N/-264 N LO ■ Sikafloor®-169 ■ Sikafloor®-DecoFiller ■ Sikafloor®-304 W 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-264/-264 LO/-264 N/-264 N LO ■ Sika® PVA ColorFlakes (3 mm) ■ Sikafloor®-169 ■ Sikafloor®-304 W 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-263 SL/-263 SL LO/-263 SL N/-264 LO/-264 N/-264 N LO ■ Colored quartz sand (0.3 - 0.8 or 0.7 - 1.2 mm) ■ Sikafloor®-169 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-169 ■ Sika® PU Colored Quartz CF (0.3 - 1.2 mm) ■ Sikafloor® CompactFiller ■ Sikafloor®-304 W

GLOBAL Sikafloor® SOLUTIONS FOR ESD PROTECTION AND ELECTROSTATIC DISCHARGE CONTROL

EVEN WHEN AREAS AND PEOPLE are equipped to handle such static-sensitive devices, inadvertent contact and damage can occur. Sikafloor® ESD (Electro Static Discharge), DIF (Dissipative Flooring) and ECF (Electrically Conductive Flooring) systems, can safeguard your entire process. These systems can be designed to produce a floor tailored to meet your specific needs.

ESD PROTECTION WITH FLOOR COVERINGS 2016 VERSION

ESD protection with floor coverings 2016 Version requirements according IEC 61340-5-1 & ANSI/ESD S20.20-2014



Definition: Conductive/Dissipative Flooring Material (ECF/DIF)

- Conductivity refers to the ability of a material to conduct a charge to ground. In non-absolute technical terms, this means its ability to conduct an electrical current.
- Conductive floors and electrostatic dissipative floors are classified according to their electrical resistance to ground.

Conductive Flooring Material (ECF)

(e.g. according to ASTM F150) A floor material that has a resistance to ground between 2.5×10^4 and 1.0×10^6 ohms

Dissipative Flooring Material (DIF)

(e.g. according to ASTM F150) A floor material that has a resistance to ground between 1.0×10^6 to 1.0×10^9 ohms

ANSI/ESD S 20.20

This Standard covers the requirements necessary to design, establish, implement and maintain an **Electrostatic Discharge (ESD) Control Program** for activities that manufacture, process, assemble, install, package, label, service, test, inspect or otherwise handle electrical or electronic components, plus assemblies and equipment susceptible to damage by electrostatic discharges greater than, or equal to 100 volts **Human Body Model (HBM)**. This Standard is also harmonized with the IEC 61340-5-1.

ASTM F 150

This Standard is a test method that covers the determination of electrical conductance or resistance of resilient flooring, either in tile or sheet form, for applications such as hospitals, computer rooms, clean rooms, access flooring, munitions plants, or any other environment concerning personnel-generated static electricity.

SJ/T 11294-2003

This Chinese Standard is the general Chinese specification standard for floor coatings for electrostatic protection.

SOLUTIONS FOR THE MARKETS IN APAC

Standards & Requirements	SJ/T 11294-2003 (ECF) Resistance to Ground $R_c > 5 \times 10^4 - < 1 \times 10^6 \Omega$	SJ/T 11294-2003 (DIF) Resistance to Ground $R_c > 1 \cdot 10^6 - < 1 \times 10^9 \Omega$	IEC 61340-5-1 (IEC 61340-4-5) System Test: $< 1 \times 10^9 \Omega$	IEC 61340-5-1 (IEC 61340-4-5) Walking Test (BVG) $< 100 \text{ Volt}$	IEC 61340-5-1 (IEC 61340-4-1) Resistance to Ground $R_c < 1 \times 10^9 \Omega$
Smooth, hygienic floors					
Sikafloor®-262 AS N	▲	-	-	-	▲
Sikafloor®-239 EDF	-	▲	-	▲	▲
High chemical resistance					
Sikafloor®-390 AS	▲	-	-	-	▲
Sikafloor®-381 AS	▲	-	-	-	▲
ESD system with very low body voltage generation					
Sikafloor®-235 ESD	-	-	▲	▲	▲
Sikafloor®-262 AS N + Sikafloor®-305 W ESD	-	-	▲	▲	▲

▲ Meets the requirements - Doesn't meet the requirements

SOLUTIONS FOR THE MARKETS IN THE AMERICAS

Standards & Requirements	ANSI/ESD S 20.20 (ANSI-ESD STM 97.1) System Test $< 1 \times 10^9 \Omega$	ANSI/ESD S 20.20 (ANSI/ESD STM97.2) Walking Test (BVG) < 100 Volt	ANSI/ESD S 20.20 (ANSI-ESD STM 7.1) Resistance to Ground $R_c < 1 \times 10^9 \Omega$	ASTM F 150 (ECF) Surface to Ground Test: $> 2.5 \times 10^4 - 1 \times 10^6 \Omega$	ASTM F 150 (ECF) Surface to Surface Test: $> 2.5 \times 10^4 - < 1 \times 10^6 \Omega$	ASTM F 150 (DIF) Surface to Ground Test: $> 1 \times 10^4 - < 1 \times 10^9 \Omega$	ASTM F 150 (DIF) Surface to Surface Test: $> 1 \times 10^4 - < 1 \times 10^9 \Omega$
Smooth ESD roller coating (Epoxy)							
Sikafloor®-200 ESD	▲	▲	▲	-	-	▲	▲
Sikafloor®-200C ESD	▲	▲	▲	▲	▲	-	-
Roller coating for high chemical resistance (Epoxy Novolac)							
Sikafloor®-700 ESD	▲	▲	▲			▲	▲
Sikafloor®-700C ESD	▲	▲	▲	▲	▲	-	-
Smooth ESD roller coating (Polyurethane)							
Sikafloor®-340 ESD	▲	▲	▲	-	-	▲	▲

▲ Meets the requirements - Doesn't meet the requirements

SOLUTIONS FOR THE MARKETS IN EMEA

Standards & Requirements	DIN EN 1081 Resistance to Ground $R_c < 1 \times 10^9 \Omega$	IEC 61340-5-1 (IEC 61340-4-5) System Test: $< 1 \times 10^9 \Omega$	IEC 61340-5-1 (IEC 61340-4-5) Walking Test (BVG) < 100 Volt	IEC 61340-5-1 (IEC 61340-4-1) Resistance to Ground $R_c < 1 \times 10^9 \Omega$	ATEX 137 / TRBS 2153 European Standard Resistance to Ground $R_c < 1 \times 10^9 \Omega$	DIN VDE 0100-410 (IEC 60364-4-41) Isolation Resistance > 50 kΩ	
Smooth and textured, hygienic ECF floors							
Sikafloor®-262 AS N	▲	-	-	▲	▲	Any insulating self-smoothing layers e.g. Sikafloor®-263 SL	
Sikafloor®-262 AS Thixo	▲	-	-	▲	▲		
Sikafloor®-3240 ECF	▲	-	-	▲	▲		
High chemical resistance							
Sikafloor®-381 ECF	▲	-	-	▲	▲		
Sikafloor®-390 ECF	▲	-	-	▲	▲		
Approved for clean rooms							
Sikafloor®-269 ECF CR	▲	-	-	▲	▲		
Food and Pharma Industry							
Sikafloor®-25 PurCem EFC	▲	-	-	▲	▲		
ESD systems with very low body voltage generation							
Sikafloor®-235 ESD	▲	▲	▲	▲	▲		
Sikafloor®-262 AS N + Sikafloor®-305 W ESD	▲	▲	▲	▲	▲		
Sikafloor®-263 SL/-326 Sikafloor®-305 W ESD	▲	▲	▲	▲	▲	▲	

▲ Meets the requirements - Doesn't meet the requirements

Sikafloor® SOLUTIONS FOR ELECTRO STATIC DISCHARGE (ESD) PROTECTION AND CONTROL



SYSTEM	Sikafloor® MultiDur ET-14 ECF	Sikafloor® MultiDur ES-24 ECF	Sikafloor® MultiDur ES-25 ESD	Sikafloor® Multiflex PS-32 ESD
DESCRIPTION	Textured unicolor conductive epoxy roller coat	Smooth unicolor conductive epoxy floor covering	Smooth unicolor high performance ESD epoxy floor covering	Seamless, smooth, low voc, tough elastic ESD polyurethane floor covering
NOMINAL THICKNESS / LAYERS	0.6 - 0.8 mm 3	~ 2 mm 3	~ 2 mm 3	~ 2 mm 3
CHARACTERISTICS	<ul style="list-style-type: none"> ■ Good wear and abrasion resistance ■ Good chemical resistance ■ Slip resistant ■ Easy to clean ■ Conductive ■ Color options 	<ul style="list-style-type: none"> ■ High wear and abrasion resistance ■ Good chemical resistance ■ Color options ■ Easy to clean ■ Conductive 	<ul style="list-style-type: none"> ■ Good wear and abrasion resistance ■ Good chemical resistance ■ Color options ■ Easy to clean ■ Conductive 	<ul style="list-style-type: none"> ■ Very low VOC emissions ■ Water based ■ Easy to apply ■ Easy to refurbish, can be overcoated directly with itself ■ Low odor ■ Good UV resistance, non-yellowing ■ Easy to clean ■ Conforms to the requirements of ANSI/ESD S20.20 and IEC 61340-5-1 ■ Matt surface
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-220 W Conductive ■ Sikafloor®-262 AS Thixo 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-220 W Conductive ■ Sikafloor®-262 AS N 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-220 W Conductive ■ Sikafloor®-235 ESD 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-3240/-324 + Sika® Earthing Kit ■ Sikafloor®-305 W ESD





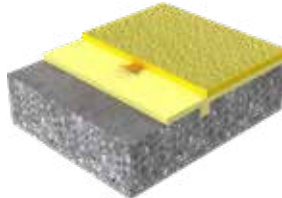
SYSTEM

Sikafloor® MultiDur ES-31 ECF

Sikafloor® PurCem® HS-25 ECF

Sikafloor® MultiDur EB-39 ECF

Sikafloor® MultiFlex PS-32 ECF



DESCRIPTION

Smooth, chemically resistant conductive floor covering

Medium duty, smooth, self-leveling, electric conductive polyurethane cementitious hybrid screed

Broadcast, unicolour conductive epoxy floor screed with high chemical resistance and slip resistance

Seamless, smooth, low VOC, tough elastic, conductive polyurethane floor covering

NOMINAL THICKNESS / LAYERS

~ 2 mm

4,5 - 6 mm

< 2.5 mm

~ 1.0 - 1.5 mm

CHARACTERISTICS

- High wear and abrasion resistance
- High chemical resistance
- Color options
- Easy to clean
- Conductive

- Conductive
- Heavy duty screed, high wear resistance
- High chemical resistance
- Medium thermal shock resistance
- Hygienic
- Slip resistant
- Color options
- Low VOC, low odor

- Conductive
- High wear resistance and abrasion
- High chemical resistance
- Tough elastic
- Slip resistant
- Color options

- Electrostatic conductive
- Flexible and tough-elastic
- Crack-bridging
- Good chemical and mechanical resistance
- Solvent-free and low VOC emissions
- Easy to apply and to keep clean
- Economical

SYSTEM COMPONENTS

- Sikafloor®-156/-161/-160/-150/-151
- Sikafloor®-220 W Conductive
- Sikafloor®-381 ECF

- Sikafloor®-25 S PurCem® ECF
- Sikafloor®-25 PurCem® ECF

- Sikafloor®-156/-161/-160/-150/-151
- Sikafloor®-220 W
- Sikafloor®-390 AS
- Silicon Carbide
- Sikafloor®-390

- Sikafloor®-156/-161/-160/-150/-151/-701
- Sika Earthing Kit
- Sikafloor®-220 W Conductive
- Sikafloor®-3240 ECF



Sikafloor® and SikaCor® SOLUTIONS FOR SECONDARY CONTAINMENT AREAS

SECONDARY CONTAINMENT AREAS ARE bunded areas designed to contain any spillages of oils, chemicals or pollutants from their primary containment tanks or vessels. This is in order to protect the soil and the groundwater from pollution, which is an increasing demand following the legislation of governments and other authorities to protect the environment.

There are two main requirements for protective coating systems in these secondary containment areas: Firstly to waterproof the structures to protect the soil and groundwater. Secondly, as many of these chemical materials are also aggressive to the concrete and reinforcement steel that the structures are built from, the secondary containment structures themselves must also be protected, in order to prevent any damage or even loss of structural integrity.

Based on our extensive experience of handling many different kinds of chemicals, i.e. acids, alkalis, oils and solvents, Sika has led the development of many specialist epoxy and other resin based coating systems to waterproof and protect secondary containment structures, so that they can fulfil their function. As required and in accordance with some national and International standards, many of these Sika systems also have defined crack-bridging properties and their chemical resistance has been fully tested against the various different chemicals that they are to be used to resist and keep contained.





SYSTEM	Sikafloor® MultiDur® ES-39	Sikafloor® MultiDur® ES-39 ECF	SikaCor® VEL
DESCRIPTION	Smooth unicolor epoxy floor covering with high chemical resistance	Smooth unicolor ECF epoxy floor covering with high chemical resistance	Glass fabric reinforced, ECF vinyl ester resin based secondary containment lining with excellent chemical resistance
NOMINAL THICKNESS / LAYERS	2 mm 2	2 mm 3	4 - 5 mm 4
CHARACTERISTICS	<ul style="list-style-type: none"> ■ Crack bridging ■ High chemical resistance ■ Good wear resistance ■ Smooth surface ■ Color options 	<ul style="list-style-type: none"> ■ Crack bridging ■ High chemical resistance ■ Good wear resistance ■ Smooth surface ■ Conductive ■ Color options 	<ul style="list-style-type: none"> ■ Crack bridging ■ Excellent chemical resistance ■ Fast curing ■ Glass fibre reinforced ■ Color options
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikafloor®-123/-156/-161 ■ Sikafloor®-390 N 	<ul style="list-style-type: none"> ■ Sikafloor®-123/-156/-161 ■ Sikafloor®-220 W ■ Sikafloor®-390 N ECF 	<ul style="list-style-type: none"> ■ SikaCor® VEL scratch coat ■ SikaCor® VEL Base Coat ■ Glass fibre matt M113 ■ Glass fibre matt M113 ■ Glass fibre surface fleece ■ SikaCor® VEL Base Coat ■ SikaCor® VEL Top Coat

Notice: to achieve tight and proof surfaces, it is important to have the right detailing solution, which is supported by Sika's technical experts to give full range support.

Sikafloor® SOLUTIONS FOR MULTI-STOREY AND UNDERGROUND CAR PARKS

PARKING STRUCTURES TODAY

Parking has become a vital part of today's mobile community, especially in metropolitan areas including airports, all of which are growing at an ever faster rate. This means continually providing more parking spaces by building new car parks and frequently extending and refurbishing existing ones.

WHERE DO YOU LIKE TO PARK?

Successful parking structures are designed to meet the users' demands, which include feeling safe and welcome, plus knowing that their cars are in a secure environment. Given the choice, people always park in a brightly lit car park, where they feel their property is best looked after and safe.

INVESTIGATION AND SURVEY OF EXISTING PARKING STRUCTURES

Multi-storey and underground car parks are both subject to many different stresses. In order to discover the root causes of distress and deterioration, it is therefore essential to carry

out a professional condition survey and assessment. It is obviously important to balance the cost of the investigative work with the benefits that the derived information will provide; but an appropriate survey and assessment is often key to successfully maintaining and extending the service life of an existing parking structure.

NEW BUILD

Modern parking structures are essential and integrated into a cities' architecture. They are frequently built using 'fast-track' construction techniques, with as much off-site construction as possible, to reduce the disruption in these areas.

Therefore precast and prefabricated sections of steel frames with reinforced concrete decks and stairways are usually combined in composite structures for new car parks. The adequate protection of new build car parks will prevent cost intensive refurbishment being required in the future.



REFURBISHMENT

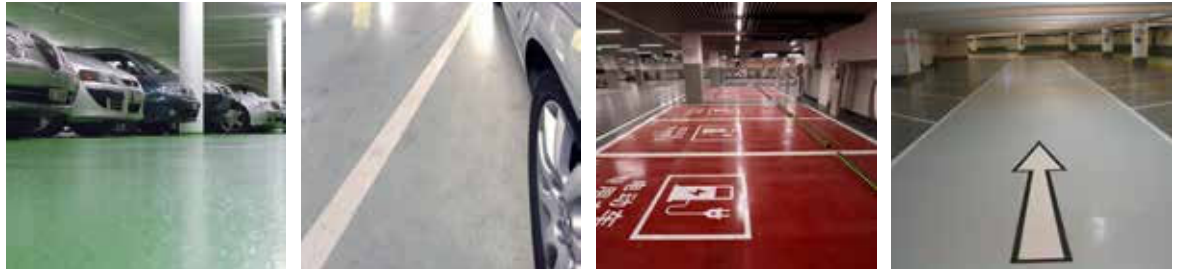
Most of Europe's existing multi-storey car parks have been built since 1950 and they are predominantly of reinforced concrete construction, many of which have a history of early deterioration, structural defects and shortcomings in safety. This is due to poor design, poor construction, low standards of maintenance and repair, or a combination of all three. Their exposure is more similar to that of bridges than the building codes they were designed to, and as a result they have deteriorated quickly, particularly due to reinforcement corrosion following the ingress of water and de-icing salts. The closure of many areas and even whole car parks for costly repair or replacement has been necessary. These bad experiences have served to emphasise the need for improved performance in car park design, construction and the materials used, in order to ensure the increased durability and safety of both new and existing structures.

THE ADEQUATE PROTECTION OF
NEW BUILD CAR PARKS WILL
PREVENT COST INTENSIVE
REFURBISHMENT BEING
REQUIRED IN THE FUTURE.



MULTI-STOREY AND UNDERGROUND CAR PARKS

Systems for ground bearing slabs



SYSTEM	Sikafloor® HardTop CS-23 W	Sikafloor® MultiDur EB-14 ECC / EB-14 ECC N	Sikafloor® MultiDur EB-14 EB-14 N	Sikafloor® MultiDur WB-10
DESCRIPTION	Monolithic finish for concrete floors	Broadcast unicolor epoxy floor covering thin layer over epoxy hybrid screed	Broadcast unicolor epoxy floor covering	Double water based epoxy roller coat
NOMINAL THICKNESS / LAYERS	< 1 mm 1	2 - 4 mm 3	2 - 3 mm	< 1 mm 2
CHARACTERISTICS	<ul style="list-style-type: none"> ■ Economic surface hardening ■ Good abrasion resistance ■ Good impact resistance ■ Vapor permeable ■ Color options 	<ul style="list-style-type: none"> ■ Cold storage (> -10°C) ■ High wear resistance ■ Good mechanical resistance ■ Medium thermal shock resistance ■ Slip resistance ■ Color options 	<ul style="list-style-type: none"> ■ Cold storage (> -10°C) ■ Highwear resistance ■ Good mechanical resistance ■ Medium thermal shock resistance ■ Meets German Standard OS-8 ■ Slip resistance ■ Color options 	<ul style="list-style-type: none"> ■ Light to medium wear resistance ■ Surface stabilization ■ Prevents surface dusting ■ Color options
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikament® or Sika® ViscoCrete® slab ■ Sikafloor®-3 QuartzTop ■ Sikafloor®-ProSeal W/ ProSeal 22 	<ul style="list-style-type: none"> ■ Sikafloor®-155 WN/-160 ■ Sikafloor®-81 EpoCem® ■ Quartz sand (0.4 - 0.7 mm) ■ Sikafloor®-264/-264 LO/-264 N/-264 N LO 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Quartz sand (0.4 - 0.7 mm) ■ Sikafloor®-264/-264 LO/-264 N/-264 N LO 	<ul style="list-style-type: none"> ■ Sikafloor®-2540 W ■ Quartz sand (0.4 - 0.7 mm) ■ Sikafloor®-2540 W

Systems for intermediate decks

Elastic Sikafloor® systems



SYSTEM	Sikafloor® MultiFlex PB-57	Sikafloor® MultiFlex PB-56	Sikafloor® MultiFlex PB-55	Sikafloor® MultiFlex PB-58
DESCRIPTION	Broadcast unicolor high performance polyurethane floor covering	Broadcast colored crack bridging system	Broadcast colored crack bridging system	Broadcast car park deck flooring and waterproofing system
NOMINAL THICKNESS / LAYERS	2 - 3 mm 3	3 - 4 mm 3	3 - 5 mm 4	3 - 5 mm 4
CHARACTERISTICS	<ul style="list-style-type: none"> ■ Static crack bridging properties (> -10°C) ■ Meets German Standard OS 13 ■ Abrasion resistance ■ Waterproofing ■ Color options 	<ul style="list-style-type: none"> ■ Wear resistance ■ Waterproofing ■ Slip resistance ■ High flexibility ■ Meets German Standard OS 11b ■ Crack bridging at low temperature ■ Color options 	<ul style="list-style-type: none"> ■ Wear resistance ■ Waterproofing ■ Slip resistance ■ Meets German Standard OS 11a ■ Very high flexibility / crack bridging at low temperature ■ Color options 	<ul style="list-style-type: none"> ■ Wear resistance ■ Slip resistance ■ High flexibility ■ Meets German Standard OS 10 ■ Color options
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-377 ■ Quartz sand (0.7 - 1.2 mm) ■ Sikafloor®-378 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-376 ■ Quartz sand (0.4 - 0.7 mm) ■ Sikafloor®-378 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-376 ■ Sikafloor®-377 ■ Quartz sand (0.7 - 1.2 mm) ■ Sikafloor®-378 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikalastic®-851 ■ Sikafloor®-377 ■ Quartz sand (0.7 - 1.2 mm) ■ Sikafloor®-378

MULTI-STOREY AND UNDERGROUND CAR PARKS

Systems for intermediate decks

Tough elastic and rigid
Sikafloor® systems



Fast elastic Sikafloor®
systems

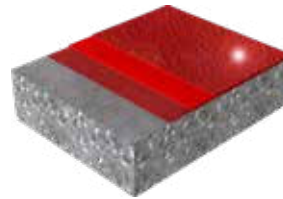
SYSTEM

Sikafloor® MultiFlex PB-32

Sikafloor® MultiDur EB-24
EB-24 N

Sikafloor® Pronto RB-25

Sikafloor® Pronto RB-28



DESCRIPTION

Broadcast unicolor tough elastic polyurethane floor covering

Slip resistant broadcast unicolor epoxy floor covering

Elastomeric waterproofing system for flooring applications

Crack bridging waterproofing system for flooring applications

NOMINAL THICKNESS / LAYERS

2 - 3 mm

2 - 4 mm

3 - 5 mm

3 - 5 mm

CHARACTERISTICS

- Static crack bridging properties
- Abrasion resistance
- Waterproofing
- Slip resistance
- Color options

- Cold storage (> -10°C)
- High wear resistance
- Good mechanical resistance
- Slip resistance
- Color options

- Crack bridging
- Rapid curing
- Good wear resistance
- Good chemical resistance
- Slip resistance
- Color options

- Rapid curing
- Crack bridging
- Medium wearing resistance
- Waterproofing
- Slip resistance
- Color options

SYSTEM COMPONENTS

- Sikafloor®-156/-161/-160
- Sikafloor®-3240/-324
- Quartz sand (0.4 - 0.7 mm)
- Sikafloor®-378

- Sikafloor®-156/-161/-160
- Sikafloor®-263 SL/-263 SL LO/-263 SL N/-263 SL N LO
- Quartz sand (0.4 - 0.7 mm)
- Sikafloor®-264/-264 LO/-264 N/-264 N LO

- Sikafloor®-10/-11/-13 Pronto
- Sikafloor®-15 Pronto
- Quartz sand (0.7 - 1.2 mm)
- Sikafloor® 18-Pronto

- Sikafloor®-10/-11/-13 Pronto
- Sikafloor®-32 Pronto
- Quartz sand (0.7 - 1.2 mm)
- Sikafloor®-18 Pronto





FLOORING SYSTEMS FOR TOP DECKS AND EXPOSED AREAS



Because of their exposure to the elements, the top decks and externally exposed areas of parking structures suffer not only from the diverse stresses of vehicular traffic and chemical attack, but the seasonal and daily thermal variations and fluctuations which cause significant dimensional changes in the structure and its components. The Sikafloor® parking structure systems are specifically designed to accommodate and where possible to absorb this stress and ensure the waterproofing and protection are maintained durably over time. In these exposed areas it is of course very important to properly plan the drainage and also the color of the decks. Lighter colors have higher solar reflectance and can therefore help in keeping a building cool. Sika provides system solutions for every application area and exposure requirements.

Highly crack bridging systems based on polyurethane resin, are Sikafloor® Multiflex PB-51 UV, PB-52 UV and PB-54 UV, which have UV stable top coats and also good color retention over time.

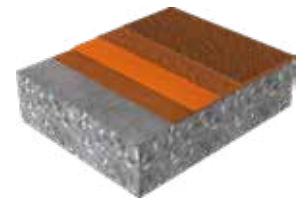
Additionally, in order to be as weather independent as possible during the application period or when a fast return to service during refurbishment is needed, Sika also provides alternative rapid hardening, methacrylate based coating systems, Sikafloor® Pronto RB-28 and RB-55, plus the highest performance Sikafloor® Pronto RB-58 system. This system has the highest dynamic crack bridging capabilities in accordance with class B 4.2 of DIN -EN 1062-7 in combination with its tough and resilient, UV resistant top coat.

Elastic Sikafloor®



SYSTEM

Sikafloor® MultiFlex PB-55 UV



DESCRIPTION

Broadcast car park deck flooring and waterproofing system with UV sealer

NOMINAL THICKNESS / LAYERS

3 – 5 mm
4

CHARACTERISTICS

- Dynamic and static crack bridging properties (> -20°C)
- Meets German Standard 05-11a
- Abrasion resistance
- Waterproofing
- Color options

SYSTEM COMPONENTS

- Sikafloor®-156/-161/-160/-150/-151
- Sikafloor®-376
- Sikafloor®-377
- Quartz sand (0.7 – 1.2 mm)
- Sikafloor®-359 N



systems

Fast elastic Sikafloor® systems



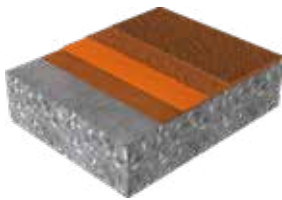
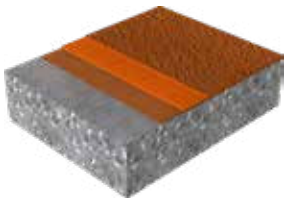
Sikafloor® MultiFlex PB-56 UV

Sikafloor® MultiFlex PB-58 UV

Sikafloor® Pronto RB-28

Sikafloor® Pronto RB-55

Sikafloor® Pronto RB-58



Broadcast colored crack bridging system with UV sealer

Broadcast car park deck flooring and waterproofing system with top sealer over elastic membrane

Crack bridging waterproofing system for flooring applications

Highly elastomeric waterproofing system for flooring applications

Extremely crack bridging waterproofing system for flooring applications

3 - 4 mm

3 - 5 mm

3 - 5 mm

5 - 7 mm

5 - 7 mm

3

4

3

4

4

- Dynamic and static crack bridging properties (> -20°C)
- Meets German Standard OS-11b
- Abrasion resistance
- Waterproofing
- Color options

- Wear resistance
- Slip resistance
- High flexibility
- UV stability
- Color options
- Meets German Standard OS 10

- Rapid curing
- Crack bridging
- Medium wearing resistance
- Waterproofing
- Slip resistance
- Color options

- Highly crack bridging
- Rapid curing
- Good wear resistance
- Good chemical resistance
- Slip resistance
- Color options

- Dynamic and static crack bridging properties (> -20°C)
- Extremely crack bridging, low temperature flexibility
- Meets German Standard OS-10
- Waterproofing
- Slip resistance
- Color options

- Sikafloor®-156/-161/-160/-150/-151
- Sikafloor®-376
- Quartz sand (0.4 - 0.7 mm)
- Sikafloor®-359 N

- Sikafloor®-156/-161/-160/-150/-151
- Sikalastic®-851
- Sikafloor®-377
- Quartz sand (0.7 - 1.2 mm)
- Sikafloor®-359 N

- Sikafloor®-10/-11/-13 Pronto
- Sikafloor®-32 Pronto
- Quartz sand (0.7 - 1.2 mm)
- Sikafloor®-18 Pronto

- Sikafloor®-10/-11/-13 Pronto
- Sikafloor® 15 Pronto
- Sika® Reemat Premium
- Sikafloor® 15 Pronto
- Quartz sand (0.7 - 1.2 mm)
- Sikafloor®-18 Pronto

- Sikafloor®-10/-11/-13 Pronto
- Sikafloor®-32 Pronto
- Sika® Reemat Premium
- Sikafloor®-32 Pronto
- Quartz sand (0.7 - 1.2 mm)
- Sikafloor®-18 Pronto



MULTI-STOREY AND UNDERGROUND CAR PARKS

Systems for ramps



SYSTEM	Sikafloor® MultiFlex PB-32	Sikafloor® MultiDur EB-14 EB-14 N	Sikafloor® Pronto RB-25	Sikafloor® Pronto RB-55
DESCRIPTION	Broadcast unicolor tough elastic polyurethane floor covering with UV sealer	Broadcast unicolor epoxy floor covering	Elastomeric waterproofing system for flooring applications	Highly elastomeric waterproofing system for flooring applications
NOMINAL THICKNESS / LAYERS	2 - 3 mm 3	2 - 3 mm	3 - 5 mm 3	5 - 7 mm 4
CHARACTERISTICS	<ul style="list-style-type: none"> ■ Static crack bridging properties ■ Abrasion resistance ■ Slip resistance ■ Color options ■ UV stability 	<ul style="list-style-type: none"> ■ Cold storage (> -10°C) ■ Highwear resistance ■ Good mechanical resistance ■ Medium thermal shock resistance ■ Meets German Standard OS-8 ■ Slip resistance ■ Color options 	<ul style="list-style-type: none"> ■ Crack bridging ■ Rapid curing ■ Good wear resistance ■ Good chemical resistance ■ Slip resistant ■ Color options 	<ul style="list-style-type: none"> ■ Highly crack bridging ■ Rapid curing ■ Good wear resistance ■ Good chemical resistance ■ Slip resistant ■ Color options
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-3240/-324 Quartz sand (0.4 - 0.7 mm) ■ Sikafloor®-378 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Quartz sand (0.4 - 0.7 mm) ■ Sikafloor®-264/-264 LO/-264 N/-264 N LO 	<ul style="list-style-type: none"> ■ Sikafloor®-10/-11/-13 Pronto ■ Sikafloor®-15 Pronto ■ Quartz sand (0.7 - 1.2 mm) ■ Sikafloor®-18 Pronto 	<ul style="list-style-type: none"> ■ Sikafloor®-10/-11/-13 Pronto ■ Sikafloor®-15 Pronto ■ Sika Reemat Premium ■ Sikafloor®-15 Pronto ■ Quartz sand (0.7 - 1.2 mm) ■ Sikafloor®-18 Pronto

SIKA ONE SHOT PARKDECK SYSTEM

Short down time = money saving with innovative Sikalastic®-8800 spray applied injection technology combining polyurea and aggregates



PRIMING 8:00 h

Priming with the ultra-rapid Sika®-Concrete Primer and 30 minutes later spraying of the crack-bridging waterproofing membrane Sikalastic®-8800 at a film thickness of 1.5

mm.INJECTION 11:00 h

Injection of aggregates in the spray pattern of the Polyurea Sikalastic®-8800 in order to install the non-slip surface.

ROLLER APPLICATION 14:00 h

Roller application of the top coat Sikafloor®-540 or Sikalastic®-8450.

READY TO USE 20:00 h

SYSTEM

Sikafloor® OneShot PB-57 UV



DESCRIPTION

UV resistant, fast curing broadcast high performance polyurethane floor covering with top sealer over elastic membrane

NOMINAL THICKNESS / LAYERS

3 - 5 mm
3

CHARACTERISTICS

- Rapid curing
- High wear resistance
- Waterproofing
- Meets Germann standard OS10
- Slip resistance
- Color options

SYSTEM COMPONENTS

- Sika®-Concrete primer
- Sikalastic®-8800 plus sand
- Quartz sand (0.7 - 1.2 mm)
- Sikafloor®-540



ADVANTAGE OF THE NEW CARPARK DECK FLOORING SYSTEM

- Time saving
- Material saving
- Short downtime: time need for the new method: 1 day
- Low consumption of aggregate compared to the conventional (manual) method. (approx. 1.5 - 3 kg instead of 6 - 8 kg)
- Excess of sand does not need to be removed, because the sand is fully bonded
- Lower labor cost
- High durability
- Fast curing
- Highly flexible
- Permanent water and weather resistance
- Slip resistance



Sika® FloorJoint

Hardly any vibrations noticeable and quick return to service

Sika® FloorJoint – THE ULTIMATE JOINT SOLUTION

Structures are designed with expansion and contraction joints at appropriate places to allow inevitable movements. The design of the joint is important for the overall design to function correctly. Sika provides a huge range of elastic joint sealants to seal and protect joints in walls and ceilings. However, joints in floor substrates have to withstand a lot of different stress: direct traffic with heavy forklifts or cars, chemical attacks and mechanical abrasion, etc. Often a floor joint also has to be waterproof to protect the substrate from corrosion. Ordinary joint solutions with a joint sealant or with metal profiles aren't resistant enough to withstand this stress and might fail after a short time.

The Sika® FloorJoint range is designed to meet those demands under various exposures. Furthermore Sika® FloorJoint provides many unprecedented advantages.

DESCRIPTION

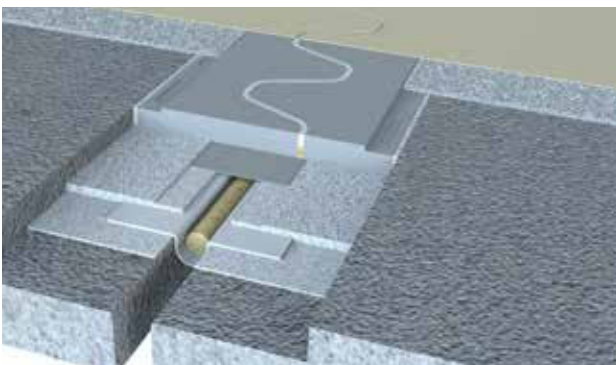
Sika® FloorJoint is a prefabricated, carbon fiber reinforced polymer composite floor panel system with high mechanical resistance. Its wave like joint design permits improved load distribution and results in minimum vibrations under direct car and forklift traffic.

Sika® FloorJoint panels are used for the installation and refurbishment of joints in concrete slabs and concrete screeds. They can be used for parking lot decks, garage floors, ramps, inside storage areas and assembly halls, maintenance workshops, hospitals, schools and warehouses with normal to medium wear. The different models in the Sika® FloorJoint range meet the various demands in each area.

CHARACTERISTICS / ADVANTAGES

- 100% waterproof when installed with Sikadur-Combiflex®
- No corrosion, free of metal
- Grindable profile for level integration into the floor surface
- Hardly any vibrations noticeable under direct car and forklift traffic

Sika® FloorJoint PD

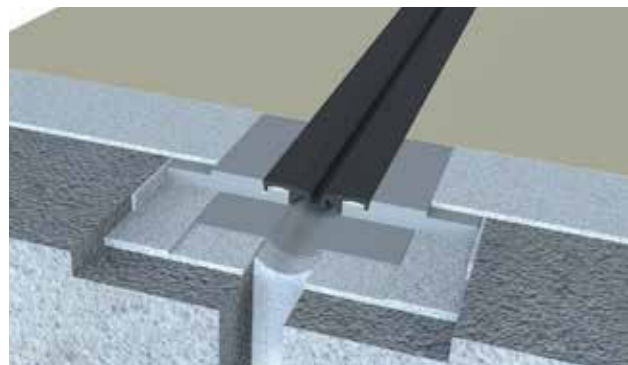


- Significant reduction of wear with components such as wheel bearings, etc. from forklifts
- High mechanical and chemical resistance
- Easy application with the screed or resin applicator
- No welding, easy detailing, easy to repair
- Waterproofing solution for the connection between horizontal and vertical construction elements
- Bonded with Sika adhesives without screws
- Thin installation
- Short downtime
- Overcoatable with resinous coatings
- Waterproof connection flange
- Fire resistant

FUNCTIONALITY AND SAFETY IN MULTI-STORY PARKING LOTS

Floor joints in parking garages and parking decks are a major challenge in both new buildings and when refurbishing existing structures. Watertightness is one of the key factors

Sika® FloorJoint PDRS



in parking structures. With their connection flanges Sika® FloorJoint PD and Sika® FloorJoint PDRS combined with Sikadur-Combiflex® systems provide 100% watertightness. Furthermore, in modern buildings, esthetics and noise reduction play an increasingly important role. Traditional metal solutions have clear limits in cases where a complicated joint line is present, or when noise reduction is required. Here the Sika® FloorJoint PD joint panel proves its strengths. The carbon fiber reinforced polymer concrete prefabricated panel fits seamlessly and virtually invisibly to the adjacent resin coverings.

In areas where ramps and floors connect, vertical movement in joints can occur. Also, greater vertical joint movement can be caused by long floor slabs. In such cases Sika® FloorJoint PDRS is the perfect solution. The concentric incorporated rubber seal allows for more movement and protects the joint and Sikadur-Combiflex® system from damage. Parking lot top decks are mostly uncovered. Due to the temperature delta from summer to winter we have to expect higher elongation of the concrete screed than in covered parking decks or underground parking lots. The value of joint movement has to be calculated by the engineer, which then indicates the right choice between Sika® FloorJoint PD or PDRS. Normally Sika® FloorJoint PDRS is more suitable for outdoor application due to its higher absorption of movement.

HEAVY FORKLIFT TRAFFIC IN INDUSTRIAL ENVIRONMENTS

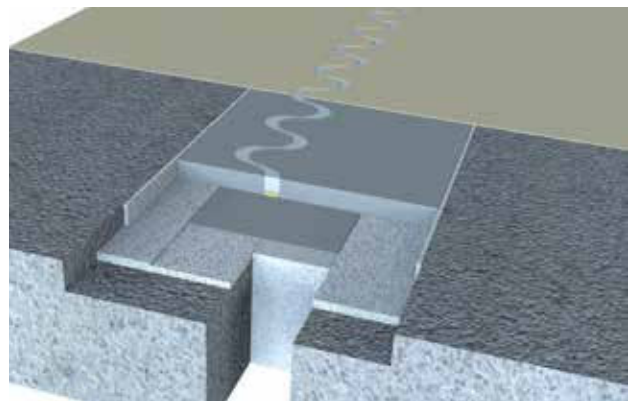
Floor joints in industrial areas equipped with conventional steel profiles or only with a joint sealant are subject to heavy loads when they are driven over by forklifts. Such joints are never absolutely flat and they can cause noise, vibration and impact on wheel bearings. This causes the forklifts to suffer and can contribute to high wear of parts. When transporting fragile or sensitive goods, it is crucial to avoid vibrations so as not to damage them. The Sika® FloorJoint S, -XS and -EX joint systems are the perfect solutions. The prefabricated, carbon fiber reinforced polymer concrete profile can be installed absolutely flat. Only the joint sealant may be slightly raised. Its wavelike joint design permits improved load distribution. The result is a noiseless and nearly vibration-free ride suitable for all kinds of forklifts. In areas where goods are transported with AGVs (automatic guided vehicles) or air cushion transport systems, requirements are met for evenness and less vibration with Sika® FloorJoint.

SMALLER JOINTS IN VIBRATION SENSITIVE AREAS

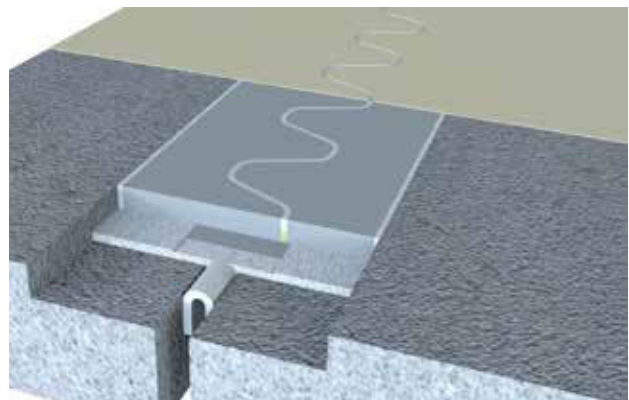
Hospital corridors, professional kitchens, precision mechanical industry and many other application fields also need absolutely flat floors and can't accept vibrations when rolling over joints. Imagine a hospital bed with an injured patient getting shaken each time when rolling over a defective floor joint or if a trolley full of parts for exclusive clockwork judders over every floor joint. In such areas the temperature is stable and

the joint movement is small. The convenient Sika® FloorJoint XS provides a cost-effective solution that can be trafficked silently and with hardly any vibrations noticeable.

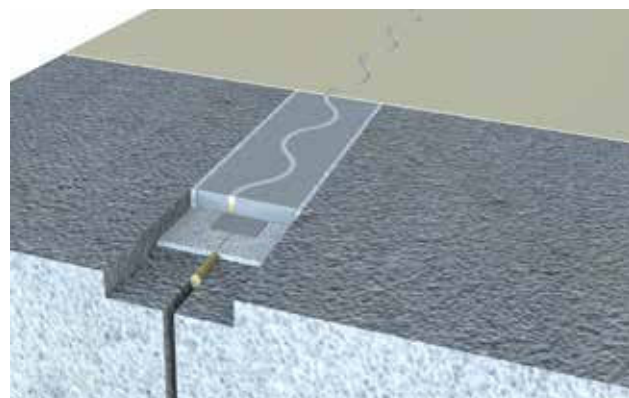
Sika® FloorJoint EX



Sika® FloorJoint S



Sika® FloorJoint XS



Sikafloor® SOLUTIONS FOR LEVELING

A PERFECTLY EVEN AND SMOOTH FLOOR SUBSTRATE surface plays an important role in the final result and life span of the floor, no matter what kind of floor covering will be installed over it. Sika supplies self-leveling compounds whose outstanding performance has been proven in construction projects with high requirements, ranging from house use to fork lift truck loads in industry.

After mixing, the Sika leveling product turns into a liquid mixture and is poured onto the subfloor surface. The characteristic of the mix allows it to level and fill in all uneven places. A specialty fast drying product is also part of our product

range. Once it is poured onto the floor, it is very easy and fast to apply. The quality of the levelled floor surface is easily under control. This is the main benefit when compared with the normal floor leveling mixes.



Here is a list of reasons why you should choose Sika leveling systems:

- Very easy mixing
- High surface coverage performance due to smooth application
- Outstanding flow properties
- Flat surfaces can be easily achieved, even in thin layers
- Suitable for multi-purpose application
- Optimized shrinkage
- Quick overcoating is possible
- No floating oil additives with the dust reduced version

THE INSTALLATION THICKNESSES OF SIKA LEVELING PRODUCTS RANGES FROM 1 UP TO 50 MM IN ONE APPLICATION.



UNDERLAYMENT

Cementitious leveling underlayments for floor coverings



SYSTEM	Sikafloor®-100 Level	Sikafloor®-200 Level	Sikafloor®-300 Level
DESCRIPTION	Multi-purpose cementitious leveling underlayment	Multi-purpose cementitious leveling underlayment for high thicknesses	High performance cementitious leveling underlayment
NOMINAL THICKNESS / LAYERS	1 - 10 mm 2	3 - 40 mm 2	1 - 10 mm 2
CHARACTERISTICS	<ul style="list-style-type: none"> ■ Cementitious self leveling ■ C25F6 ■ Economic ■ Multi-purpose ■ Average loading ■ Low emissions, EC1+ 	<ul style="list-style-type: none"> ■ Cementitious self leveling ■ C25F6 ■ Economic ■ Multi-purpose ■ Average loading ■ Dust reduced ■ High thicknesses ■ Low emissions, EC1+ 	<ul style="list-style-type: none"> ■ Cementitious self leveling ■ C30F6 ■ Low shrinkage ■ Smooth finish ■ Medium duty loading ■ Low emissions, EC1+
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikafloor®-01/-02/-03 Primer ■ Sikafloor®-100 Level 	<ul style="list-style-type: none"> ■ Sikafloor®-01/-02/-03 Primer ■ Sikafloor®-200 Level 	<ul style="list-style-type: none"> ■ Sikafloor®-01/-02/-03 Primer ■ Sikafloor®-300 Level



SYSTEM	Sikafloor®-300 Rapid Level	Sikafloor®-400 Level	Sikafloor® Level-30
DESCRIPTION	Fast drying, high performance cementitious leveling underlayment	Dust reduced high performance cementitious leveling underlayment with excellent workability	High performance cementitious leveling underlayment for indoor and outdoor applications
NOMINAL THICKNESS / LAYERS	1 - 10 mm 2	1 - 10 mm 2	4 - 30 mm 2
CHARACTERISTICS	<ul style="list-style-type: none"> ■ Cementitious self leveling ■ C50F10 ■ Super fast ■ Low shrinkage ■ Smooth finish ■ High duty loading ■ Low emissions, EC1+ 	<ul style="list-style-type: none"> ■ Cementitious self leveling ■ C35F7 ■ Super friendly workability ■ Low shrinkage ■ Smooth finish ■ Dust reduced ■ high duty loading ■ Low emissions, EC1+ 	<ul style="list-style-type: none"> ■ Cementitious self leveling ■ C40F10 ■ Fast drying ■ Low shrinkage ■ High thickness ■ Medium to high loading ■ Meets EN1504-3 Class R3 ■ Low emission EC1+
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikafloor®-01/-02/-03 Primer ■ Sikafloor®-300 Level Rapid 	<ul style="list-style-type: none"> ■ Sikafloor®-01/-02/-03 Primer ■ Sikafloor®-400 Level 	<ul style="list-style-type: none"> ■ SikaLevel®-01 Primer ■ Sikafloor® Level-30

Sikafloor® SOLUTIONS FOR COMMERCIAL, PUBLIC AND RESIDENTIAL AREAS

SIKA HAS DESIGNED SPECIAL flooring solutions for the use in schools, museums, retail, leisure and healthcare facilities, plus many other commercial and public buildings.

This Sika flooring range combines individual design with health care including comfort underfoot and the lowest VOC emissions, in order to create a unique flooring experience.

INDIVIDUAL DESIGN

The Sika decorative floor range meets the need for individual and decorative designs in commercial, retail and leisure facilities using colored chips, aggregates and other special

fillers. These floors allow you to create many different and unique surface designs, ranging from textured broadcast and smooth power float finishes. Sika decorative floor systems can be produced in a wide range of different color shades, with additional special colors available to order. This allows you to create your own individual designs or extend your Corporate Identity onto your floors.



COMFORT AND CARE

Sika ComfortFloor® systems for commercial and public building areas are soft enough to provide underfoot comfort in those areas where personnel stand for long periods of time. These resilient flooring solutions not only reduce footfall noise and horizontal noise transmission, but also resist scratching by their elastic deformation and recovery.

Sika ComfortFloor® SOLUTIONS

- Low VOC emissions
- Noise absorbent
- Good impact sound insulation
- High comfort underfoot
- Good wear resistance
- Good impact resistance
- Crack-bridging
- Decorative

AVAILABLE IN CUSTOM COLORS, THESE RESILIENT FLOORING SOLUTIONS NOT ONLY REDUCE FOOTFALL NOISE AND HORIZONTAL NOISE TRANSMISSION, BUT ALSO RESIST SCRATCHING THANKS TO THEIR ELASTIC DEFORMATION AND RECOVERY.



COMMERCIAL, PUBLIC AND RESIDENTIAL AREAS

Decorative flooring systems



SYSTEM	Sikafloor® MultiDur WS-10	Sikafloor® MultiDur ES-17 ES-17 N	Sikafloor® MultiDur ES-27 ES-27 N
DESCRIPTION	Double water based epoxy roller coat	Decorative colored epoxy roller coat with flakes and sealer	Decorative colored epoxy floor covering with flakes and sealer
NOMINAL THICKNESS / LAYERS	< 1 mm 2	< 1 mm 2	1 - 2 mm 3
CHARACTERISTICS	<ul style="list-style-type: none"> ■ Light to medium wear resistance ■ Surface stabilization ■ Prevent surface dusting ■ Color options 	<ul style="list-style-type: none"> ■ Light to medium wear resistance ■ Medium slip resistance optional ■ Easy cleaning ■ Color options 	<ul style="list-style-type: none"> ■ Light to medium wear resistance ■ Good mechanical resistance ■ Medium slip resistance optional ■ Easy cleaning ■ Color options
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikafloor®-2540 W/ -2550 W ■ Sikafloor®-2540 W/ -2550 W 	<ul style="list-style-type: none"> ■ Sikafloor®-264/-264 LO/ -264 N/-264 N LO ■ Sika® PVA ColorFlakes 3 mm ■ Sikafloor®-304 W 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/ -150/-151 ■ Sikafloor®-263 SL/ -263 SL LO/-263 SL N/ -263 SL N LO ■ Sika® PVA ColorFlakes 3 mm ■ Sikafloor®-304 W



SYSTEM	Sikafloor® DecoDur ES-22 Granite	Sikafloor® DecoDur ES-26 Flake	Sikafloor® DecoDur EB-26 Quartz	Sikafloor® DecoDur EM-21 Compact
DESCRIPTION	Smooth low VOC colored granite effect epoxy floor covering	Smooth low VOC colored full flaked epoxy floor covering	Slip resistant low VOC color quartz broadcasted epoxy floor covering	Smooth high resistant power floated broadcast color quartz epoxy screed
NOMINAL THICKNESS / LAYERS	2 - 3 mm 3	2 - 3 mm 4	2 - 3 mm 3	~ 3 mm 4
CHARACTERISTICS	<ul style="list-style-type: none"> ■ Food contact compliant ■ Low particle emissions ■ Colored granite effects ■ Designer aesthetics ■ Medium slip resistance optional ■ Low VOC ■ Color options 	<ul style="list-style-type: none"> ■ Food contact compliant ■ Low particle emissions ■ Colored flake effects ■ Medium slip resistance optional ■ Low VOC ■ Color options 	<ul style="list-style-type: none"> ■ Food contact compliant ■ Low particle emissions ■ Colored sand effects ■ Good mechanical resistance ■ Slip resistant ■ Low VOC ■ Color options 	<ul style="list-style-type: none"> ■ Food contact compliant ■ Low particle emissions ■ Colored sand effects ■ High mechanical resistance ■ High impact resistance ■ Slip resistance optional ■ Low VOC ■ Color options
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikafloor®-264/-264 LO/-264 N/-264 N LO ■ Sikafloor®-169 ■ Sikafloor®-DecoFiller ■ Sikafloor®-304 W 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-264/-264 LO/-264 N/-264 N LO ■ Sika® PVA ColorFlakes (3 mm) ■ Sikafloor®-169 ■ Sikafloor®-304 W 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-263 SL/-263 SL LO/-263 SL N/-264 LO/-264 N/-264 N LO ■ Colored quartz sand (0.3 - 0.8 or 0.7 - 1.2 mm) ■ Sikafloor®-169 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-169 ■ Sika® PU Colored Quartz CF (0.3 - 1.2 mm) ■ Sikafloor® CompactFiller ■ Sikafloor®-304 W

COMMERCIAL, PUBLIC AND RESIDENTIAL AREAS

Comfort flooring systems



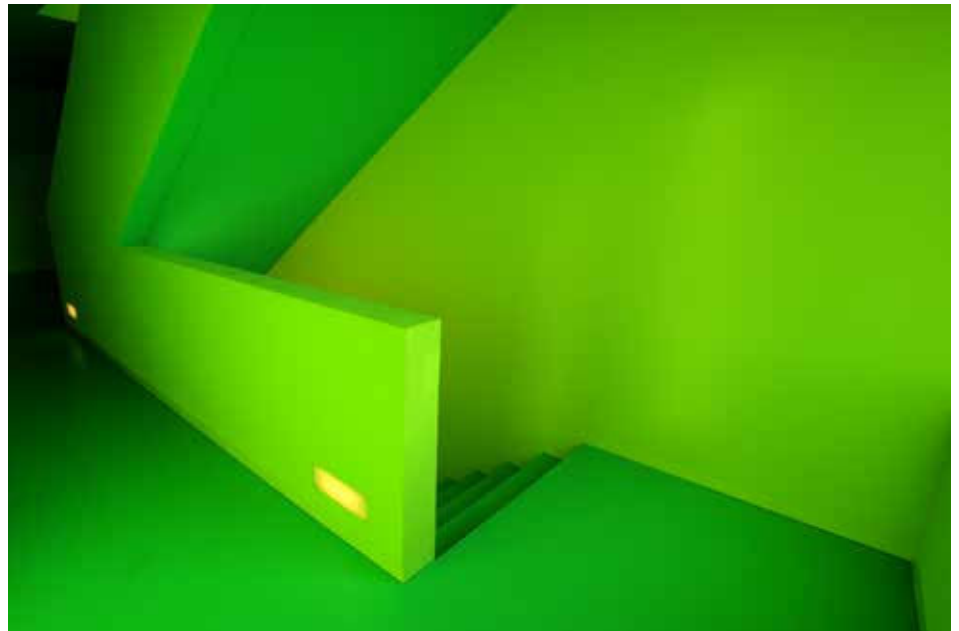
SYSTEM	Sika ComfortFloor® PS-23	Sika ComfortFloor® PS-24	Sika ComfortFloor® PS-27	Sikafloor® Multiflex PS-27 ESD
DESCRIPTION	Seamless, smooth, unicolor, low voc, elastic polyurethane floor covering	Seamless, smooth, low voc, elastic, polyurethane floor covering with optional color flakes	Seamless, smooth, unicolor, low voc, tough elastic polyurethane floor covering	Seamless, smooth, unicolor, low voc, tough elastic ESD polyurethane floor covering
NOMINAL THICKNESS / LAYERS	~ 2 mm 3	~ 2 mm 3	~ 2 mm 3	~ 2 mm 3
CHARACTERISTICS	<ul style="list-style-type: none"> ■ Soft footfall ■ Crack bridging ■ Good wear and impact resistance ■ Color options ■ Low VOC 	<ul style="list-style-type: none"> ■ Soft footfall ■ Crack bridging ■ Good wear and impact resistance ■ Decorative flakes optional ■ Color options ■ Low VOC 	<ul style="list-style-type: none"> ■ Good wear and impact resistance ■ Crack bridging ■ Color options ■ Low VOC 	<ul style="list-style-type: none"> ■ Good wear and impact resistance ■ Crack bridging ■ Color options ■ Conductive ■ Low VOC
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-330 ■ Sikafloor®-305 W 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-300 or 3000 ■ Optional: Sika® PVA ColorFlakes ■ Sikafloor®-304 W 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-327 ■ Sikafloor®-305 W 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-327 ■ Sikafloor®-305 W ESD





SYSTEM	Sika ComfortFloor® Marble FX	Sika ComfortFloor® PS-63	Sika ComfortFloor® PS-65	Sika ComfortFloor® PS-66
DESCRIPTION	Seamless, smooth, low voc, elastic, polyurethane floor covering with decorative marble effect	Seamless, smooth, unicolor, low voc, sound insulating elastic polyurethane floor covering	Seamless, smooth, unicolor, low voc, resilient polyurethane floor covering	Seamless, smooth, low voc, resilient polyurethane floor covering with optional color flakes
NOMINAL THICKNESS / LAYERS	~ 2 mm 3	~ 6 mm 4	~ 6 mm 5 - 7	~ 6 mm 5 - 7
CHARACTERISTICS	<ul style="list-style-type: none"> ■ Soft footfall ■ Crack bridging ■ Good wear and impact resistance ■ Color options ■ Low VOC ■ Decorative marble effect 	<ul style="list-style-type: none"> ■ Soft footfall ■ Resilient ■ Good impact sound insulation ■ Crack bridging ■ Color options ■ Low VOC 	<ul style="list-style-type: none"> ■ Soft footfall ■ Resilient ■ Good impact sound insulation ■ Crack bridging ■ Good wear and impact resistance ■ Color options ■ Low VOC 	<ul style="list-style-type: none"> ■ Soft footfall ■ Resilient ■ Good impact sound insulation ■ Crack bridging ■ Good wear and impact resistance ■ Decorative flakes optional ■ Color options ■ Low VOC
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-3000 FX ■ Sikafloor®-306 W/-304 W 	<ul style="list-style-type: none"> ■ Sikafloor®-156/-161/-160/-150/-151 ■ Sikafloor®-320 ■ Sikafloor®-330 ■ Sikafloor®-305 W 	<ul style="list-style-type: none"> ■ Sikafloor® Comfort Adhesive ■ Sikafloor® Comfort Regupol-6015 H ■ Sikafloor® Comfort Porefiller ■ Sikafloor®-330 ■ Sikafloor®-305 W 	<ul style="list-style-type: none"> ■ Sikafloor® Comfort Adhesive ■ Sikafloor® Comfort Regupol-4580 ■ Sikafloor® Comfort Porefiller ■ Sikafloor®-300/-3000 ■ Optional: Sika® PVA ColorFlakes ■ Sikafloor®-304 W

INSPIRATION WITH COLORS OF Sika ComfortFloor®





BALCONIES AND STAIRWAYS



SYSTEM **Sikafloor® MonoFlex MB-55** **Sikafloor® MonoFlex MB-56** **Sikafloor® MonoFlex MM-57**



DESCRIPTION Broadcast, 1-component, fast curing, crack bridging and waterproofing, unicolor floor covering Broadcast, 1-component, fast curing, crack bridging and waterproofing, decorative floor covering Broadcast, 1-component, fast curing, crack bridging and waterproofing, quartz finish floor covering



NOMINAL THICKNESS / LAYERS 3 - 4 mm 2 - 3 mm 4 - 5 mm

5 5 5

CHARACTERISTICS

- Extremely crack bridging
- ETAG 005 Certified
- Slip resistant
- Medium wear resistant
- UV-Stable
- Color options

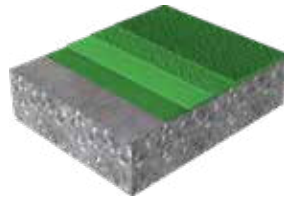
SYSTEM COMPONENTS

- Sika® Bonding Primer
- Sikafloor®-405
- Sika® Reemat Premium
- Sikafloor®-405
- Sikafloor®-405
- Quartz sand (0.4 - 0.8 mm)
- Sikafloor®-415





SYSTEM **Sikafloor® MonoFlex MS-24** **Sikafloor® MonoFlex MB-29** **Sikafloor® Pronto RB-25**



DESCRIPTION Smooth, 1-component, crack-bridging, decorative floor covering Broadcast, 1-component, extra fast curing, crack bridging, decorative quartz finish floor covering Elastomeric waterproofing system for flooring applications



NOMINAL THICKNESS / LAYERS 1 - 2 mm / 3 2 - 3 mm / 4 3 - 5 mm / 3

- CHARACTERISTICS**
- Highly crack bridging
 - Medium wear resistant
 - UV-Stable
 - Decorative flakes
 - Color options
- Crack bridging
 - Accelerated moisture triggered curing
 - Slip resistant
 - Medium wear resistant
 - UV-Stable
 - Decorative
 - Color options
- Crack bridging
 - Rapid curing
 - Good wear resistance
 - Good chemical resistance
 - Slip resistant
 - Color options

- SYSTEM COMPONENTS**
- Sikafloor®-156/-161/-160/-150/-151
 - Sikafloor®-400 N Elastic
 - Optional: Sika® PVA Color-Flakes 3 mm
 - Sikafloor®-410
- Sika® Concrete Primer
 - Sikafloor®-415
 - Sikafloor® PU-Accelerator
 - Colored quartz sand (0.3 - 0.8 mm or 0.7 - 1.2 mm)
 - Sikafloor®-416
- Sikafloor®-10/-11/-13 Pronto
 - Sikafloor®-15 Pronto
 - Quartz sand (0.7 - 1.2 mm)
 - Sikafloor®-18 Pronto



Sikagard® SOLUTIONS FOR WALLS AND CEILINGS

FOR A GREAT MANY DIFFERENT exposure and performance requirements in industrial and commercial facilities, the application of a protective wall coating is frequently necessary. The specific demands on the wall can obviously vary according to the specific industry, the function of the area and the processes that are carried on inside it.

The electronic and optical industries need to have clean-room conditions on the wall surfaces, with minimal VOC's / AMC's or particle emissions, plus they must be easy to clean and ensure the area remains dust free. For this increasingly demanding market Sikagard® Wallcoat N, a waterborne epoxy coating, already has all of the necessary certification and approvals. Sikagard® Wallcoat N is also the ideal solution for food & beverage plants in the areas where food stuffs are produced, these usually have a cleaning regime using high pressure water-jetting with strong detergents and cleaning agents. Sikagard® Wallcoat N perfectly combines good chemical resistance, mechanical resistance and the required ease of cleaning.

Breweries and other drink production areas, together with

many other food production and processing facilities have areas where the humidity is constantly very high. The walls in these areas require wall coatings with integral anti-fungal and anti-bacterial protection. The Sikagard® Hygienic Coatings range has the ideal characteristics and performance properties for these important areas, plus they are also easy to apply by brush, roller or airless spray and adhere to most common wall building substrates. Sikagard® Hygienic Coatings are resistant to moisture and elastomeric, so they are able to accommodate thermal or structural movement without cracking or flaking. These coatings have been fully tested in accordance with many European standards including EN 13501 (Behaviour in Fire), ISO 846 (biological resistance), EN 18033 (Wet scrub resistance and opacity).





SYSTEM	Sikagard® WallCoat WS-11	Sikagard® WallCoat PS-11	Sikagard® WallCoat AS-11 Hygienic	Sikagard® WallCoat AL-12 Hygienic
DESCRIPTION	Waterborne Epoxy based, low emissions, high performance wall coating solution	Waterborne Polyurethane based, low emissions, high performance wall coating solution	Hygienic wall coating system which does not promote growth of micro-organisms through in-film preservative	High performance hygienic wall coating system which does not promote growth of micro-organisms through in-film preservative
NOMINAL THICKNESS / LAYERS	< 0.5 mm 2	< 0.5 mm 2	< 0.5 mm 2	~ 1 mm 3
CHARACTERISTICS	<ul style="list-style-type: none"> ■ Low particle emissions ■ Medium wear resistance ■ Medium chemical resistance ■ Smooth surface ■ Easy cleaning ■ Color options ■ Low VOC 	<ul style="list-style-type: none"> ■ Low particle emissions ■ Medium wear resistance and elasticity ■ Basic chemical resistance ■ Smooth surface ■ Easy cleaning ■ Color options ■ Low VOC 	<ul style="list-style-type: none"> ■ Biological resistance ■ Hygienic (anti-fungal and anti-bacterial) ■ Resistant to disinfectants ■ Smooth surface ■ Easy cleaning ■ Color options ■ Low VOC 	<ul style="list-style-type: none"> ■ GMP Compliant ■ Biological resistance ■ Hygienic (anti-fungal and anti-bacterial) ■ Resistant to disinfectants ■ Glassfibre reinforced ■ Easy cleaning ■ Color options ■ Low VOC
SYSTEM COMPONENTS	<ul style="list-style-type: none"> ■ Sikagard® Wallcoat N ■ Sikagard® Wallcoat N 	<ul style="list-style-type: none"> ■ Sikagard® Wallcoat N ■ Sikafloor®-305 W 	<ul style="list-style-type: none"> ■ Sikagard®-403 W + 5% Water ■ Sikagard®-403 W 	<ul style="list-style-type: none"> ■ Sikagard®-403 W + 5% Water ■ Sikagard®-403 W ■ Reemat premium ■ Reemat Lite ■ Sikagard®-405 W/ -406 W/-207 W

SIKA SUSTAINABLE SOLUTIONS

Flooring systems contribute to sustainable construction

SUSTAINABLE DEVELOPMENT responds to trends that will shape our future flooring business. Sika invests strongly in the development of energy efficiency solutions, resource efficiency solutions, climate protection solutions and air quality solutions. Please refer to our brochure "Flooring Sustainable Solutions: More Value Less Impact" for detailed information.

PUBLIC BUILDINGS

INSTALL Sikafloor® SYSTEMS THAT MEET YOUR AESTHETIC AND TECHNICAL REQUIREMENTS



More Value

- Sikafloor® ComfortFloor® provides high quality of life with an excellent acoustic performance and freedom of design.
- Sikafloor® ComfortFloor® is robust and fully bonded to the concrete creating a monolithic floor.
- Sikafloor® ComfortFloor® is biologically resistant and withstands the impacts of cleaning and use of detergents and disinfectants.
- Sikafloor® ComfortFloor® contributes to points in various green building programs.

Less Impact

- Sikafloor® ComfortFloor® has a lower carbon footprint since it does not need any cementitious underlayment.
- Sikafloor® ComfortFloor® does not need any adhesive.
- Sikafloor® ComfortFloor® is easy to clean as it is seamless.

FOOD INDUSTRY

DESIGN AN INDUSTRIAL FLOOR THAT WILL LAST



More Value

- Sikafloor® PurCem® has a high resistance against chemical, mechanical and thermal attack.
- Sikafloor® PurCem® contributes to points in various green building programs.

Less Impact

- Sikafloor® PurCem® installed in thickness above 6 mm has superior thermal resistance.
- Sikafloor® PurCem® has a seamless surface that requires less cleaning and maintenance which therefore requires less energy and less cleaning materials.
- The new Sika® PurCem® Gloss has a lower carbon footprint compared to other thin competitive technologies.

CLEANROOM ENVIRONMENTS

**SELECT AN APPROVED Sikafloor®
“CLEANROOM SUITABLE MATERIAL”**



More Value

- With the Sikafloor® CR (cleanroom) there is no need for additional adhesive, underlayment, or damp-proof membranes.
- Sikafloor® CR is seamless - with no joints and no welding.
- The Sikafloor® CR contributes to various green building programs.
- Sika offers a full range of flooring, coatings and sealants solutions for clean rooms: Sikafloor®, Sikagard® and Sikaflex®.

Less Impact

- Sikafloor®, Sikagard® and Sikaflex® CSM (clean room suitable material) systems are very low in airborne molecular contamination to provide the cleanest air quality for clean rooms.
- Sikafloor® CR has a lower energy demand compared to competitive safety PVC solutions.

CAR PARKING AREAS

SELECT LIGHTWEIGHT MATERIALS FOR YOUR BUILDING



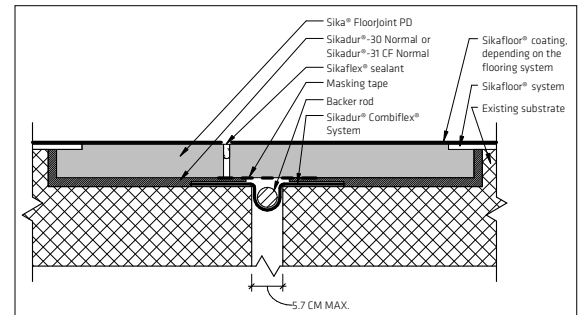
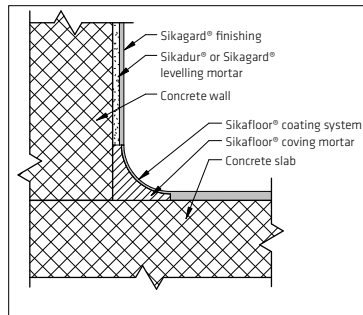
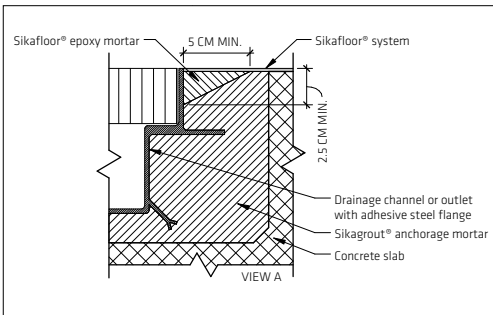
More Value

- Sikafloor® has an excellent aesthetic appearance.
- Sikafloor® is easier to clean and maintain compared with asphalt.
- Sikafloor® provides protection for the concrete and prevents the ingress of water and chloride.
- Sikafloor® contributes to points in various green building programs.

Less Impact

- Sikafloor® contributes with lower weight to the structure compared with asphalt.
- Sikafloor® has lower energy and resource demand during the installation phase compared with asphalt.

DETAILING AND JOINTING FOR FLOORING APPLICATIONS



DRAINAGE CHANNELS / GULLIES

Drainage channels / gullies should always be designed to be outside of trafficked areas wherever possible. Falls on the floors should be adequate to discharge liquids as quickly as possible to the channels. When traffic over channels / gullies is unavoidable, considerable attention should be given to the channel arises and cover grating fixings, as these are the most susceptible areas for premature failure.

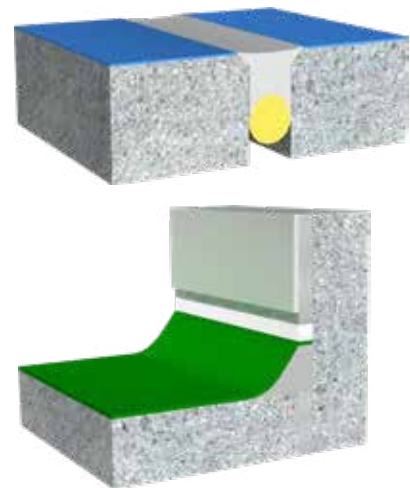
COVING

Wherever seamless coving is required for easy to clean wall-to-floor connections, Sika provides very easy to apply coving mortars composed of Sikafloor®-156/160/161 and Sikafloor®-280 filler. Ready to use kits such as Sika® Repair EP can also be used for this purpose.

JOINTING

There is no way to prevent all of the joints in floors, but they are causes of the major damages in flooring applications due to different reasons. Therefore, the proper planning and design of

a floor joint has to be performed with specific precautions to prevent future damage. Furthermore, industrial floors require reliable joint sealants to resist chemical and mechanical wear, particularly floors designed for vehicular traffic or cleaning machines, etc. Sika solutions for these joint sealants include the well proven and reliable Sikaflex® Pro-3 polyurethane sealant that is suitable for many types of floor joints including connecting joints between different materials. We have also developed pre-fabricated panels for joints in car parks and industrial floors as described on page 42-43.



Primer: Sika® Primer-3 N

Joint sealant: Sikaflex® Pro-3

A moisture curing, 1-part elastic sealant based on polyurethane resin and designed specifically for flooring.

Joint Dimensions:

min. / max. width = 10 / 35 mm



DESIGN SUSTAINABLE CONSTRUCTION WITH SIKA HIGH PERFORMANCE FLOORING SYSTEMS

DESIGN LIFE



This is possibly the most fundamental criterion and is certainly the first question to ask when selecting a floor: What is the required design life – 2, 5, 10 or 20 years? Is frequent or regular maintenance feasible or desirable? The floor specification must obviously be designed to meet this life expectancy and durability, including the intended maintenance-free periods.

* Note:

- 1) The 3D graphics in this brochure are not to scale and they are only intended to illustrate the system build-ups.
- 2) The symbols such as represent typical project related performance requirements and these are all listed and discussed on pages 50 to 52 of this brochure.

STRUCTURAL REQUIREMENTS



The static and dynamic loadings that will be imposed during both construction and service have to be considered. The floor topping must be capable of withstanding these demands, but it can only function as well as the substrate to which it is applied, i.e. the structural concrete slab or screed.

Note: In some instances the floor slabs may require additional structural strengthening – for example with Sika® CarboDur® Composite Strengthening systems.

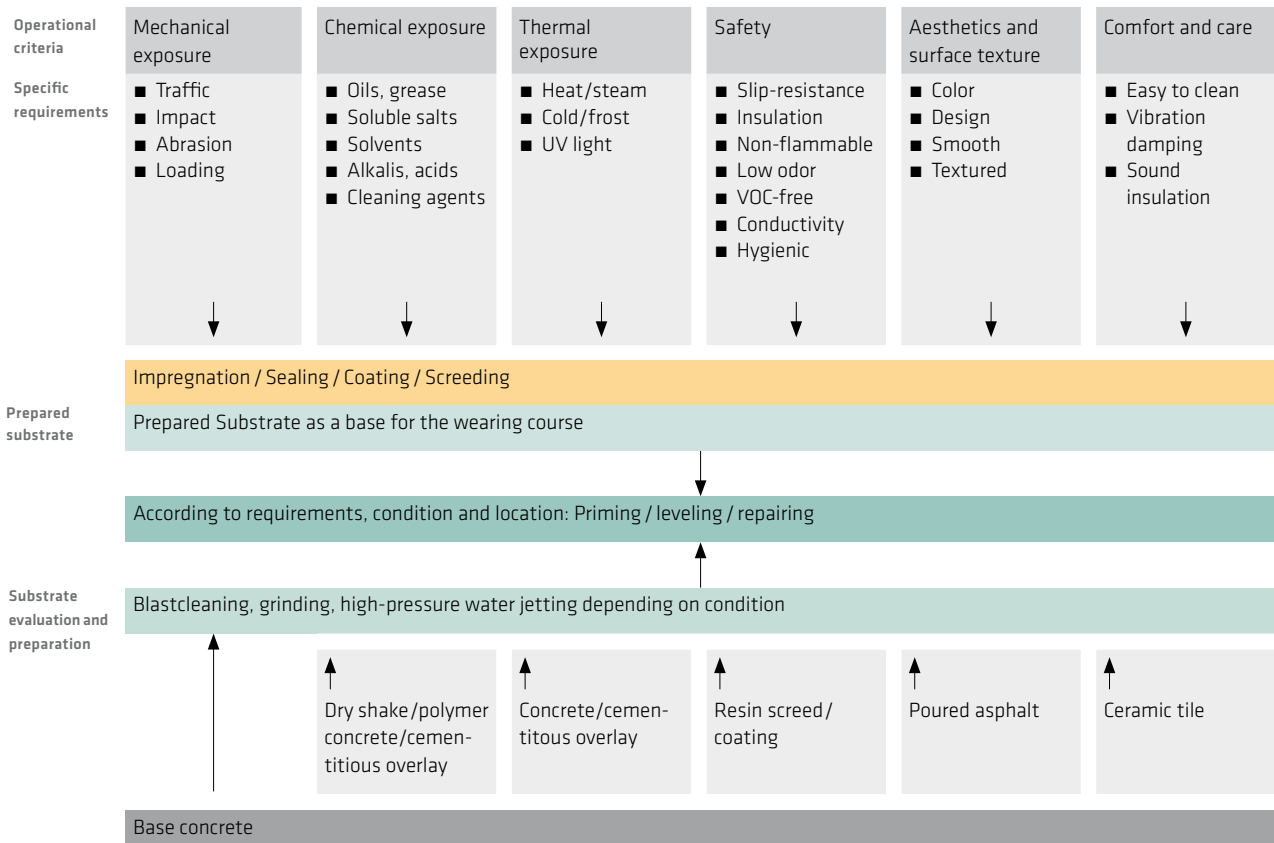
COLOR AND APPEARANCE



In addition to providing seamless concrete protection against corrosive liquids and mechanical wear, flooring systems should also meet easy-care, hygiene, safety and durability requirements with the appropriate color for the environment.

Achievement of both the architect and the owner's requirements always requires consideration of both functional and aesthetic criteria. With Sikafloor® systems a wide variety of colors, textures and visual effects can be produced in floors which will also provide the overall functional performance.

KEY REQUIREMENTS FOR CONSIDERATION IN SELECTING A FLOOR SYSTEM



PROJECT RELATED PERFORMANCE REQUIREMENTS



TRAFFIC AND MECHANICAL WEAR



Heavy and frequent traffic increases the physical requirements for mechanical resistance measured as abrasion. Often the greatest wear or exposure occurs in localised areas. Trucking aisles or sections around specialised plant for example, may require different or additional treatment to the surrounding general floor area.



CHEMICAL RESISTANCE



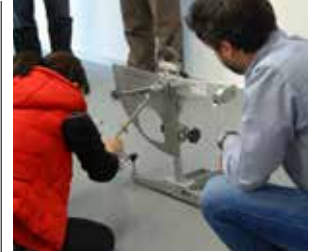
Resistance to chemical attack is a major factor for many floor finishes. Assess the effects on the floor of the individual chemicals present plus their combined or mixed effects and the consequences of any chemical reactions. Higher temperatures usually increase the aggressive nature of chemicals.



SERVICE TEMPERATURE



Thermal shock resistance can be a major requirement for floors. It is important to consider not only the temperature of operating machinery and the products in the processes, but also the temperature of adjacent areas. At either end of the scale, the temperature extremes from hot water or steam used for cleaning and cold from blast freezers for example can create extremely demanding environments; fortunately many Sikafloor® systems can durably accommodate these.



SLIP RESISTANCE



Floor areas may require different degrees of slip resistance, dependent on their environment, i.e. 'wet' or 'dry' processing areas. This is principally a question of reconciling the floor's surface profile and finish, with the demands for ease of cleaning and the type and likelihood of spillages. Generally speaking the greater the profile, the greater the slip resistance.



FIRE RESISTANCE



Fire classifications for floors are generally given in Building Regulations by the responsible national and local authorities and cover such aspects as their difficulty to ignite and their actual behaviour in the event of a fire. Floor finishes produced with liquid polymers obviously also have to meet these requirements and limitations, which is no problem for Sikafloor® systems.



HYGIENE



Today's floors have to fulfil the highest hygiene demands and increasingly very specific requirements for the prevention of contamination, particularly in the nuclear, pharmaceutical, cosmetic, food, beverage, chemical and electronics industries. There are many Sikafloor® systems designed to meet even the strictest requirements of the latest cleanroom hygiene conditions.



IMPACT RESISTANCE, POINT LOADING



In areas where goods are mechanically handled such as production areas, warehouses, loading bays and the like, compressive and dynamic loads are generated by the movement of these goods on the lines, forklifts and pallet trucks etc. It is essential to ensure that the stresses generated are not higher than the strength of the floor topping material and / or its bond to the substrate, which is reliably achieved with Sikafloor® systems.



WATERPROOFING



Sikafloor® systems can provide an impermeable seal to protect both the concrete from attack by aggressive liquids and the underlying groundwater and the environment from the leakage of pollutants. This includes flexible and crack-bridging systems that help to ensure the reliable containment of any ecologically harmful materials, or conversely to maintain the purity of contained drinking water.



RAPID CURING



Flooring systems with rapid curing characteristics can be of tremendous benefit in reducing the necessary delays due to waiting times in new construction and in keeping the downtime in refurbishment and maintenance situations to a minimum. Fast curing systems are also an advantage for applications that have to be undertaken at lower temperatures. Sikafloor® systems therefore include a wide range of fast curing and accelerated systems.



NEUTRAL ODOR, VOC-FREE



Total solids, 100% solids, or solvent free flooring systems that also have neutral odor and low VOC emissions should now always be considered wherever possible to be sustainable and help to meet Green Building objectives, which all helps to protect the environment. This is especially the case in occupied indoor / internal or closed areas, where Sika ComfortFloor® systems are the ideal solution.



FLOOR COATING ON GREEN AND DAMP CONCRETE



In new construction the delay before fresh concrete slabs can be coated and allow the building works to continue, or the area to be put into service is a major problem. In refurbishment projects waiting for existing concrete moisture content to reduce to an acceptable level for over coating with impermeable resin coatings is also a big problem. Sika® EpoCem® Technology is an innovative solution that can be used to reduce all of this waiting time dramatically.



ELECTRICAL CONDUCTIVITY/ ESD



There is an increasing demand for conductive flooring solutions, including ESD, DIF and ECF systems. These types of flooring systems are used to protect sensitive devices from damage or to avoid the potentially explosive effects in flammable atmospheres. Sika is a world leader in this technology for both floor and wall coatings. Please also see pages 36 to 39 of this brochure.



CRACK-BRIDGING ABILITY



Static and dynamic crack-bridging properties are often required for floor coating systems in order to adequately protect the substrate and accommodate movement and vibration. This is a particular requirement on exposed car park decks for example. The crack-bridging properties of selected Sikafloor® systems can safely accommodate this movement and the Sika systems are tested for crack-bridging performance down to at least -20 °C.



CLEANING AND MAINTENANCE



In order to ensure that Sika flooring solutions stay in good condition and continue to perform and function as required to protect your investment and give years of satisfaction, we also provide fully detailed cleaning and maintenance advice and guidelines. These are available for your assistance in the Sikafloor® Cleaning Regime, which is available to download from: www.sika.com.



DAMPING OF IMPACT NOISE



Public transit and gathering places, such as entrance halls, corridors and display or sales areas require higher underfoot comfort levels and protection against the transmission of both impact noise and airborne noise. For this reason, flexible Sika flooring systems are recommended, plus SikaBond® elastic adhesives are available for wood floor systems to meet these same standards, including European Part E sound transmission regulations.



THERMAL CONDUCTIVITY



Users can perceive the warmth of a floor to their feet very differently and subjectively. In addition to the ambient room and floor surface temperatures, the thermal conductivity of the substrate is usually the most significant factor. Sika provides the highly insulated and elastic Sika ComfortFloor® solutions where this is a requirement. - Please also refer to page 60 of this brochure.

PROJECT RELATED PERFORMANCE REQUIREMENTS



MULTIPLE COLOR SHADES



The Sikafloor® range is available in almost every color shade with stable pigments available and special colors can be made to order or matched to a client's specific requirements. This includes Sika flooring systems produced to all major national and international color standards including RAL, BS 4800 and NCS.



UV LIGHT RESISTANCE



Where color is important and / or where high UV Light radiation exposure is anticipated, suitably resistant and light fast Sikafloor® systems are available. This can be particularly important on exposed or partially exposed car park or balcony decks for example. Equally UV light and color stability should always be considered for any floors with doors or windows where natural sunlight enters the building for significant periods of time.



RESISTANCE TO FURNITURE CASTORS



The wheels or castors on many chairs and other furniture and equipment are relatively small in diameter and therefore they can create heavy point loads on the floor. Only highly abrasion resistant or resilient flooring systems with proven performance such as many of the Sikafloor® systems should be used in these situations for long term durability.



VOC/AMC EMISSIONS



One of the main objectives for flooring and wall coatings in cleanrooms is to prevent the potentially damaging effects of VOC/AMC's (Volatile Organic Compounds/ Airborne Molecular Contaminants) being released into the atmosphere and affecting the quality of the sensitive materials produced in these areas.

The Sikafloor® CR systems are the 'state of the art' in this technology and have been tested to give the best performance on the global market.



FOR FOOD CONTACT



Flooring in the food and beverage industry has to be suitable for direct contact, or to be in close proximity to food stuffs, without adversely affecting them: as well as being able to withstand the extremely intensive cleaning regimes and frequent exposure to aggressive chemicals. Many Sikafloor® systems have full foodstuffs and potable water contact approvals.



PARTICLE EMISSIONS



Cleanroom suitability also considers all of the additional parameters relevant to the manufacture of the specific products under clean conditions, such as particle emissions, which are tested and assessed for this purpose in accordance with ISO 14644. Sika has developed special floor and wall systems with the lowest particle emissions results. Please also refer to the Sikafloor® CR systems on pages 30 to 33.



FLATNESS AND LEVEL



Underlayments required for providing a smooth (flat) or horizontal (level) surface for low performance requirements, such as prior to the application of carpets, resilient flooring, wood floors, sports floors or tiling in indoor residential areas; plus for high performance specifications requiring extreme values, such as for fork-lift traffic in high bay storage facilities for example.



1-COMPONENT SYSTEMS



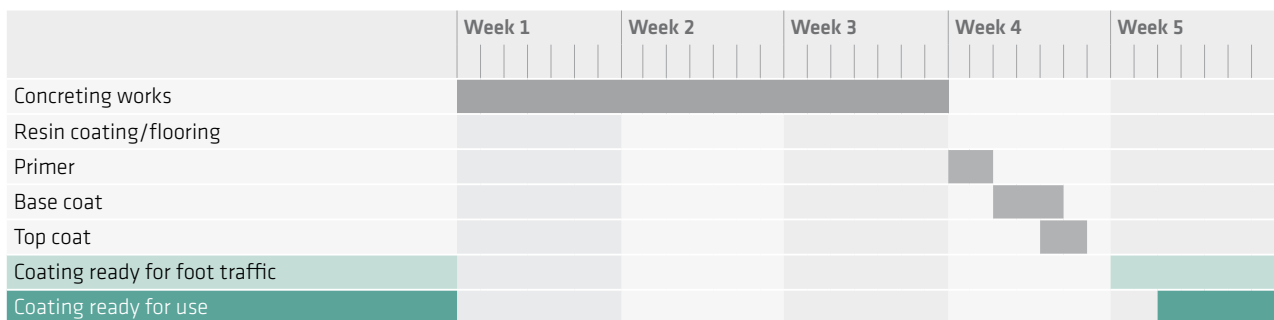
1-Component polyurethane based systems incorporate a unique technology that allows the material to use atmospheric moisture to trigger the curing process. This means these moisture curing 1-component polyurethane coatings can be applied almost without dependence on the weather (temperature, humidity or dew point) and they dry quickly.

TIME IS MONEY

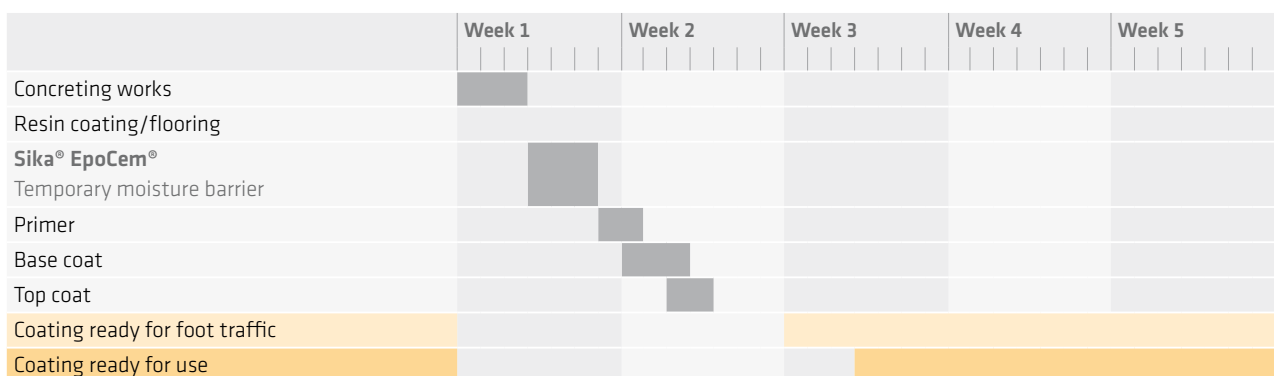
SCHEMATIC OF PLANNED TIME savings with Sika® EpoCem® technology for concrete substrate which doesn't have yet ideal condition. The floor finishes are usually done under time pressure. If you have to wait until the ideal conditions (pull-off strength 1.5 N/mm²) and humidity (<4 % pbv) in the concrete slab are achieved, then most flooring materials require a waiting time of at least 28 days, according to their data sheets and the respective standards.

You can cut this waiting time significantly by using the unique intermediate layers Sikafloor®-81 or -82 EpoCem®. These can be applied directly onto the new concrete after just 7 to 10 days and also directly on concrete substrates recently prepared by high pressure water-jetting, in refurbishment works for example. The benefit is substantial.

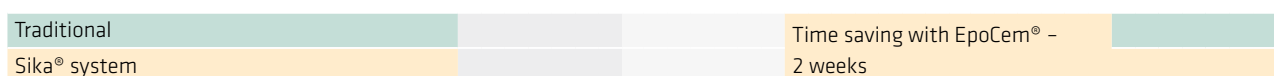
TRADITIONAL CONSTRUCTION PROGRAMME



PROGRAMME SIKA SYSTEM



TIME SAVING WITH Sika® EpoCem®



No more Waiting. No more Delays.

CLEANING AND MAINTENANCE OF Sika[®]floor

PROPER CLEANING AND EVENTUAL MAINTENANCE are needed to ensure that your Sika flooring system stays in the best shape and gives you years of satisfaction.

Sika[®]floor systems are designed as ready-to-use solutions that require no initial maintenance or polymer applications. These solutions are a real plus for environments where customers need a simple way to clean the floor, maintain its appearance and preserve their long-term investment.

However, proper cleaning procedures are needed to offer a considerable reduction in facility operating costs by lowering the need for interim floor maintenance and the time required to strip and install floor finishes, while maintaining a long-lasting aesthetic appearance. All Sika flooring systems are tested in the lab with different cleaning products to ensure customers receive appropriate cleaning instructions. In addition, Sika collaborates with international cleaning solution

suppliers such as Diversey Care to provide correct cleaning and maintenance Schedule using our lab test results. They recommend the use of proper agents in conjunction with proper cleaning pads for cleaning Sika[®]floor surfaces. Some also offers floor polishes that are dedicated to certain project types such as healthcare facilities. They are happy to provide Sika flooring customers high-level after-sales service with a specific focus on cleaning and maintenance.

Sika also provide support for life-cycle cost analyses and maintenance budgets for floors in a wide range of projects. The Technical Services Department of your local Sika company can provide you with a full list of the most suitable options for your floors.





QUICK RENOVATION AND TURN AROUND SOLUTIONS

A BIG CONCERN in the use of floor is to renovate it after certain time period when the floor has naturally reached its end of life. By using Sikafloor® systems for the floor, this becomes relatively easy.

Sikafloor® has been used for many years in many different industries where high traffic, severe abrasion, impact and shock are daily stresses on the floor. Different techniques are available to regenerate Sikafloor® systems and extend the service-life of the whole floor. These techniques are:

- Recoating with a thin top coat compatible with the original system. This solution provides a brand new surface with the added option of changing the color.
- Refurbishment with diamond grinding pads: this technique is only possible with a thicker layer and smooth floor. The result is a regenerated floor where existing surface damage is removed and the floor retains its original color.



Sikafloor® APPLICATION PROCEDURES

Substrate inspection and preparation

THE CONCRETE SUBSTRATE IS THE BASIS OF A NEW FLOOR, WHETHER IT IS NEW OR EXISTING.

Thorough inspection and assessment are essential to determine its condition and the necessary surface preparation for a successful flooring system to be applied.

A durable bond must be achieved between the new flooring system and the substrate, which requires a clean and contaminant free, dry (according to the system requirements) and sound surface to be mechanically prepared to remove

any cement laitance, loose or friable particles and provide the profile required for the selected floor system. The final surface should be vacuumed to remove any dust prior to the application.

Please refer to our product method statement for proper investigation and preparation of the substrates or contact your local Sika technical department.



MEASURING THE COMPRESSIVE STRENGTH

The compressive strength of the substrate should not be less than 25 N/mm² (25 MPa). To meet defined loads, a higher strength may be required. It is advisable to take a number of measurements across the floor and in all parts of the proposed installation to confirm the compressive strength i.e. with a Schmidt hammer.



MEASURING THE COHESIVE STRENGTH

Concrete floors generally have some cement laitance with low cohesive strength in the top few mm. This weak layer must always be removed during the substrate preparation. Withstanding stresses from concrete shrinkage, thermal shock or loading requires a minimum cohesive strength. This should be: $\geq 1.5 \text{ N/mm}^2$ ($\geq 1.5 \text{ MPa}$) and this is usually measured by a number of Pull-off tests across the floor.



SUBSTRATE MOISTURE CONTENT

It is extremely important to measure the substrate moisture content because cement bound substrates should normally only be over-coated at a moisture level of < 4% pbv. ASTM D4263 is a simple test with a Polyethylene-sheet of at least 1 m² taped to the concrete surface. This should be left in position for at least 24 hours, prior to removal and testing. Moisture Meters such as the Tramex Concrete Encounter CME 4 can then give a clear reading of the moisture content as a % pbv. Moisture content > 4% by volume, or visible rising moisture (condensation) on the bottom of the sheet, indicates the need for additional drying time or the use of Sikafloor® EpoCem® Technology.

Sikafloor® APPLICATION PROCEDURES

Seamless perfection only takes a few steps

Sikafloor® IS DESIGNED to provide long lasting beauty and performance. We have developed a proven process of application stages for our liquid applied flooring materials. This unique process is the only way to achieve seamless floors throughout your facility and maintain lasting beauty and easy maintenance. A global base of experienced and well trained flooring experts is available to take care of your flooring needs. Please feel free to also consult our experts on adequate procedures for old floor removal in case of refurbishment projects, to ensure proper subfloor preparation and floor detailing.





STEP 1. After inspection and preparation of the subfloor by cleaning (and if needed shotblasting, grinding, sanding and/or leveling), we will start mixing our liquid materials.



STEP 2. A liquid primer is applied to assure good bonding of the flooring, which is typically done by trowel and roller. The adequate method can be selected depending on the quality of the subfloor.



STEP 3. Self-leveling materials are applied in one or several layers to create a seamless base. Experts will pour and distribute the liquid material by using special squeegees, hand trowels, stand-up trowels and spike rollers in the process to assure a perfectly even and smooth surface.



STEP 4. A wide selection of liquid resin products is available in an almost unlimited amount of colors to address many types of use. Decorative flakes or anti-slip aggregates may be broadcasted into the wet surface.



STEP 5. The finishing touch is the application of a transparent or pigmented topcoat. Typically this step involves a roller or spray application. The topcoat secures the desired final design, and adds friction and wear resistance qualities to the buildup.



STEP 6. Enjoy your floor for many years to come. Follow the recommended maintenance procedures, including a possible pre-treatment, to assure long lasting beauty and performance.

ALSO AVAILABLE FROM SIKA



FOR MORE FLOORING AND COATING INFORMATION:



WE ARE SIKA

Sika is a specialty chemicals company with a leading position in the development and production of systems and products for bonding, sealing, damping, reinforcing and protecting in the building sector and the motor vehicle industry. Sika's product lines feature concrete admixtures, mortars, sealants and adhesives, structural strengthening systems, industrial flooring as well as roofing and waterproofing systems.

Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.



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BUILDING TRUST

