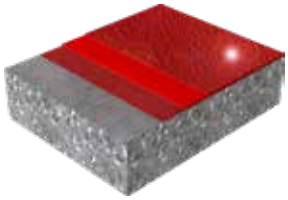
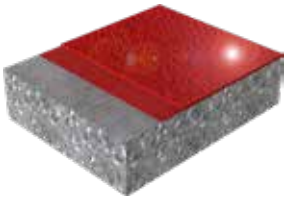
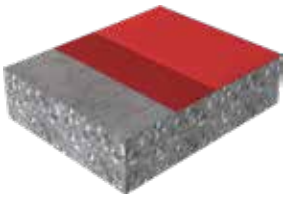


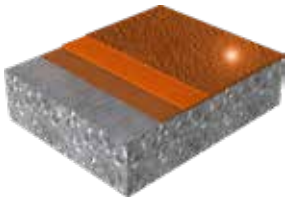
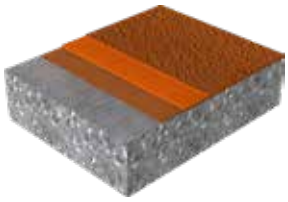
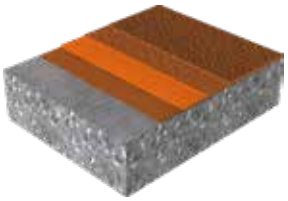
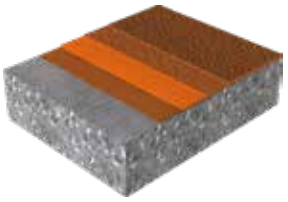
EPOXY-CAR PARKING

				
SYSTEM	**Sikafloor® HardTop CS-23 W**	**Sikafloor® MultiDur EB-14 ECC**	**Sikafloor® MultiDur EB-14**	**Sikafloor® MultiDur WB-10**
				
DESCRIPTION	Monolithic finish for concrete floors	Broadcast unicolor epoxy floor covering thin layer over epoxy hybrid screed	Broadcast unicolor epoxy florr covering	Double water based epoxy roller coat
NOMINAL THICKNESS / LAYERS	< 1 mm 1	2 – 4 mm 3	2 - 3 mm	< 1 mm 2
CHARACTERISTICS	■ Economic surface hardening ■ Good abrasion resistance ■ Good impact resistance ■ Vapor permeable ■ Color options	■ Cold storage (> -10°C) ■ High wear resistance ■ Good mechanical resistance ■ Medium thermal shock resistance ■ Slip resistance ■ Color options	■ Cold storage (> -10°C) ■ Highwear resistance ■ Good mechanical resistance ■ Medium thermal shock resistance ■ Meets German Standard OS-8 ■ Slip resistance ■ Color options	■ Light to medium wear resistance ■ Surface stabilization ■ Prevents surface dusting ■ Color options
SYSTEM COMPONENTS	■ Sikament® or Sika® ViscoCrete® slab ■ Sikafloor®-3 QuartzTop ■ Sikafloor®-ProSeal W / ProSeal 22	■ Sikafloor®-155 WN or -160 ■ Sikafloor®-81 EpoCem® ■ Quartz sand (0.4 – 0.7 mm) ■ Sikafloor®-264	■ Sikafloor®-156/-161/-160 ■ Quartz sand (0.4 – 0.7 mm) ■ Sikafloor®-264	■ Sikafloor® 2540 W ■ Quartz sand (0.4 – 0.7 mm) ■ Sikafloor®-2540 W

ELASTIC ® SYSTEMS






SYSTEM	MultiFlex PB-21	MultiFlex PB-51	MultiFlex PB-52	MultiFlex PB-54
				
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	■ Static crack bridging properties (> -10°C) ■ Meets German Standard OS 13 ■ Abrasion resistance ■ Waterproofing ■ Color options	■ Wear resistance ■ Waterproofing ■ Slip resistance ■ High flexibility ■ Meets German Standard OS 11b ■ Crack bridging at low temperature ■ Color options	■ Wear resistance ■ Waterproofing ■ Slip resistance ■ Meets German Standard OS 11a ■ Very high flexibility / crack bridging at low temperature ■ Color options	■ Wear resistance ■ Slip resistance ■ High flexibility ■ Meets German Standard OS 11a ■ Color options

TOUGH ELASTIC AND RIGID SYSTEMS

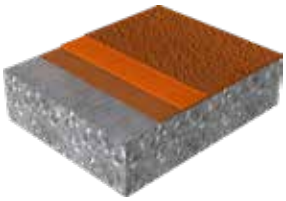
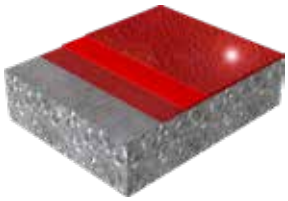
FAST ELASTIC SYSTEMS

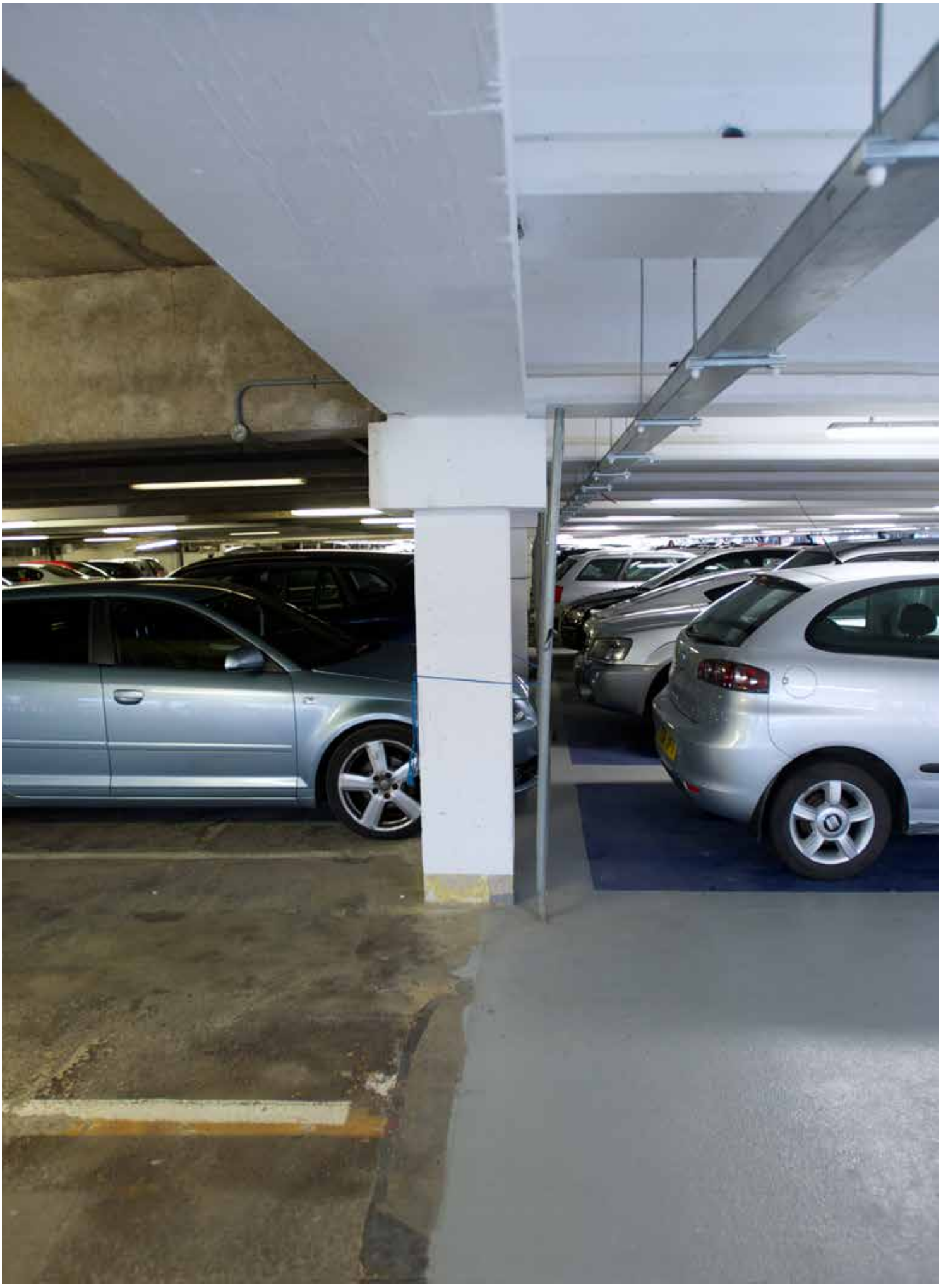








SYSTEM	MultiFlex PB-32	MultiDur EB-24	Pronto RB-25	Pronto RB-28
				
DESCRIPTION	Broadcast unicolor tough elastic polyurethane floor covering	Slip resistant broadcast unicolor epoxy floor covering	Elastomeric waterproofing system for flooring applications	Crack bridging waterproofing system for flooring applications
NOMINAL THICKNESS / LAYERS	2 – 3 mm 3	2 – 4 mm 3	3 – 5 mm 3	3 – 5 mm 3
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 ■ Quartz sand (0.4 – 0.7 mm) ■ Sikafloor®-264	■ 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



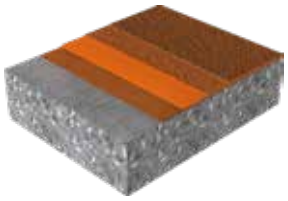
Because of their exposure to the elements, the top decks and externally exposed areas of parking structures suffer not only from the diverse stresses of vehicular traffic and chemical attack, but the seasonal and daily thermal variations and fluctuations which cause significant dimensional changes in the structure and its components. The 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 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, Pronto RB-28 and RB-55, plus the highest performance 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



SYSTEM	**Sikafloor® MultiFlex PB-52 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 OS-11a ■ Abrasion resistance ■ Waterproofing ■ Color options

SYSTEMS

FAST ELASTIC SYSTEMS

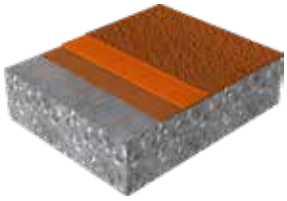
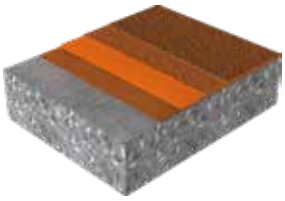










MultiFlex PB-51 UV	**MultiFlex PB-54 UV**	**Pronto RB-28**	**Pronto RB-55**	**Pronto RB-58**
				
Broadcast colored crack bridging system with UV sealer	Broadcast car park deck flooring and waterproofing system with top sealer over elastic membrane	Crack bridging waterproofing system for flooring applications	Highly elastometic 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	■ 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

FLOORING SYSTEMS FOR RAMPS AND ENTRANCE AREAS

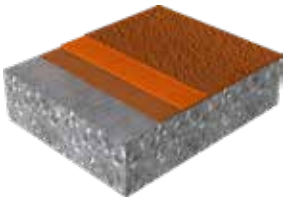
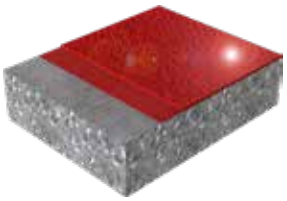


Car park entrances and ramps usually have the highest traffic loading in terms of frequency, breaking and acceleration, sometimes in combination with higher speeds, which dictate the need for the highest resistance and durability against this stress. High slip resistance is frequently an additional requirement in these areas, in order to prevent cars from crashing into kerbs, walls or barriers. MultiDur EB-14 is a cost effective and tough, rigid system designed to withstand these high demands. The polyurethane resin based Multiflex PB-32 is a tough elastic system which can also absorb some significant movement of the structure.

The ramps and entrance areas are often sections that cannot be closed or blocked off for maintenance works, or if they can, then only for a very short time. For refurbishment works in these areas the very fast curing and tough elastic Pronto RB-25 and RB-55 systems, are ideal and enable the areas to be put back in to service with the minimum of delay.

The unique OneShot PB-55 and PB-55 UV systems are the ultimate problem solvers on the market for this type of critical application. They combine the performance properties of a top quality deck coating with the speed of application of a spray applied polyurea membrane and the whole system build-up is completed in less than one day and trafficable after just a few hours. The OneShot system properties in service also exceed the performance requirements in terms of wear resistance, crack bridging and durability for a long service-life.

Contact your local technical department to help design and specify the right system, tailored to your specific needs and requirements for application and service in each area.

				
SYSTEM	**MultiFlex PB-32**	**MultiDur EB-14**	**Pronto RB-25**	**Pronto RB-55**
				
DESCRIPTION	Broadcast unicolor tough elastic polyurethane floor covering with UV sealer	Broadcast unicolor epoxy florr covering	Elastomeric waterproofing system for flooring applications	Highly elastometic waterproofing system for flooring applications
NOMINAL THICKNESS / LAYERS	2 – 3 mm 3	2 - 3 mm	3 – 5 mm 3	5 – 7 mm 4
CHARACTERISTICS	■ Static crack bridging properties ■ Abrasion resistance ■ Slip resistance ■ Color options ■ UV stability	■ Cold storage (> -10°C) ■ Highwear resistance ■ Good mechanical resistance ■ Medium thermal shock resistance ■ Meets German Standard OS-8 ■ Slip resistance ■ Color options	■ Crack bridging ■ Rapid curing ■ Good wear resistance ■ Good chemical resistance ■ Slip resistance ■ Color options	■ Highly crack bridging ■ Rapid curing ■ Good wear resistance ■ Good chemical resistance ■ Slip resistance ■ Color options

ONE SHOT PARKDECK SYSTEM

Short Down Time = Money Saving with Innovative Spray Applied Injection Technology Combining Polyurea and Aggregates.



PRIMING
8:00 h
Priming with the ultra-rapid -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 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	■ -Concrete primer ■ Sikalastic®-8800 plus sand ■ Quartz sand (0.7 – 1.2 mm) ■ -8450

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

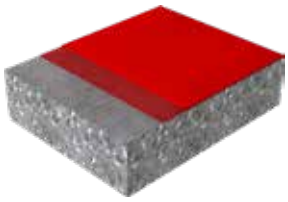
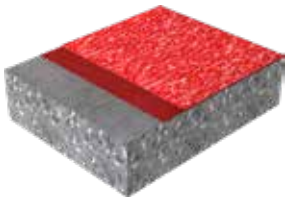
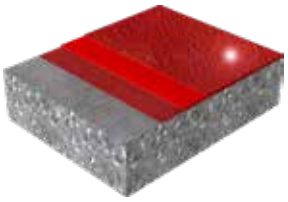


FLOORING SYSTEMS FOR ENTRANCE AREAS, WALKWAYS AND STAIRCASES

PEDESTRAIN TRAFFIC

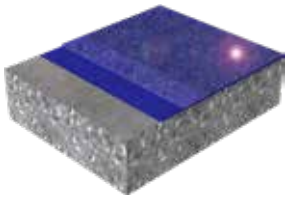
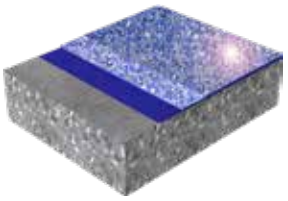




SYSTEM	MultiDur WS-10	MultiDur ET-14	MultiDur EB-24
			
DESCRIPTION	Double water based epoxy roller coats	Textured unicolor epoxy roller coats	Broadcast unicolor epoxy floor covering
NOMINAL THICKNESS / LAYERS	< 1 mm 2	< 1 mm 2	2 – 4 mm 3
CHARACTERISTICS	■ Light to medium wear resistance ■ Surface stabilization ■ Prevents surface dusting ■ Color options	■ Good wear and abrasion resistance ■ Good chemical resistance ■ Slip resistance ■ Easy cleaning ■ Color options	■ Cold storage (> -10°C) ■ High wear resistance ■ Good mechanical resistance ■ Medium thermal shock resistance ■ Slip resistance ■ Color options

PEDESTRAIN TRAFFIC



SYSTEM	**DecoDur ES-22** **Granite**	**DecoDur ES-26** **Flake**	**DecoDur EB-26** **Quartz**
			
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 broadcast epoxy floor covering
NOMINAL THICKNESS / LAYERS	2 – 3 mm 3	2 – 3 mm 4	2 – 3 mm 3
CHARACTERISTICS	■ Food contact compliant ■ Low particle emissions ■ Colored granite effects ■ Designer aesthetics ■ Medium slip resistance optional ■ Low VOC ■ Color options	■ Food contact compliant ■ Low particle emissions ■ Colored flake effects ■ Medium slip resistance optional ■ Low VOC ■ Color options	■ Food contact compliant ■ Low particle emissions ■ Colored sand effects ■ Good mechanical resistance ■ Slip resistance ■ Low VOC ■ Color options

INNOVATIVE FLOOR JOINT SOLUTIONS

Hardly any vibrations noticeable and rapid return to service

FLOOR JOINTS IN PARKING GARAGE DECKS are a major challenge in both new construction and the refurbishment of existing structures, as their water tightness is one of the key factors for durability. With specially designed connection flanges

As previously mentioned in regard to modern parking structures and customer preference, the environment and aesthetics play an increasingly important role. In addition to creating a lot of undesirable traffic noise, traditional metal edged and mechanical movement joint systems have clear limitations where the joint line and widths are variable or complex in these situations. Also when noise reduction is specifically required the FloorJoint PD joint panel proves its strengths. This prefabricated carbon fibre reinforced polymer concrete panel fits seamlessly and virtually invisibly into the joints and with the adjacent resin coating systems and floor coverings.

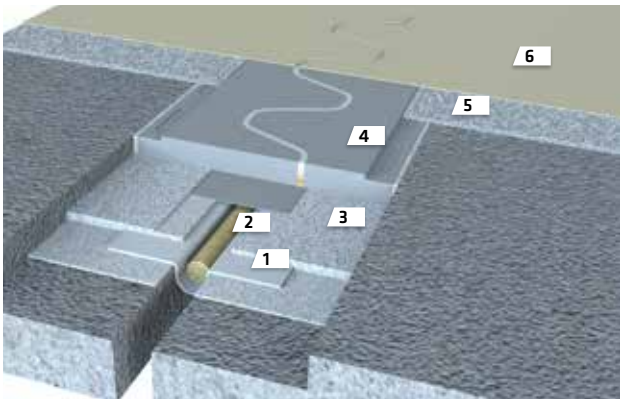
In the difficult areas where ramps and deck / floor slabs connect, vertical movement in these joints can often occur and cause problems; there is also the potential for larger vertical joint movement caused by the extended length of the slabs. In these situations FloorJoint PDRS is the perfect solution as the concentric integral rubber seal allows for greater movement and at the same time it protects the watertight Sikadur® Combiflex® system from damage.

The top decks of car parks are generally uncovered in most countries and due to the temperature variation (Delta-T) from summer to winter, there will be greater expansion and contraction of the concrete deck slabs than in covered parking decks or underground car parks. The necessary joint locations, dimensions and movement capability must be calculated by the responsible structural engineer, and this then determines the right choice between FloorJoint PD and PDRS. Normally FloorJoint PDRS is more suitable for these externally exposed installations because of its higher movement capability.

The STUVA test institute in Cologne has special test equipment to simulate nearly 300'000 vehicle overruns at 50 Km/h, by truck tires with a weight of 10 tonnes. This test is much too severe to simulate a car park environment, but even when tested under these harsh conditions, both Sika® FloorJoint PD and FloorJoint PDRS achieved top results and remained completely intact.



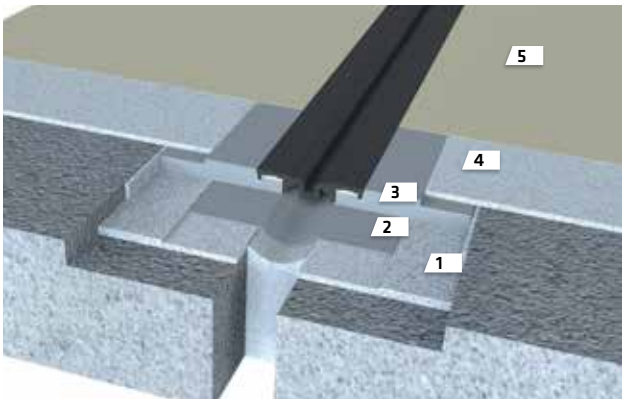
Sika® FloorJoint PB-30 PD
For gaps in the substrate with a maximum width of 60 mm (maximum positive joint movement = 40 mm)



1. Waterproofing	Sikadur®-30 or Sikadur®-31 CF normal + Sikadur® Combiflex® SG-10 P
2. Backing rod	Sika® Backing Rod, size according width of the joint
3. Adhesive	Sikadur®-30 Normal or Sikadur®-31 Normal
4. Floor panel	Sika® FloorJoint PD jointed with Sikaflex® Pro-3
5. Wearing course	e.g. Sikafloor®-156/-161 + Sikadur®-375, broadcast to excess
6. Top coat	e.g. Sikafloor®-359 N

CHARACTERISTICS / ADVANTAGES
- High mechanical and chemical resistance
- Non-corroding
- Waterproof system design possible
- Grindable profile for level integration into the floor surface
- Hardly any vibrations noticeable under direct car or forklift traffic
- Thermal expansion coefficient similar to resin-based floors
- Easy to install / Easy to repair
- Short downtime / Trafficable after 24 h

Sika® FloorJoint PB-30 PDRS
For gaps in the substrate with a maximum width of 50 mm (maximum positive joint movement = +50 mm)



1. Adhesive	Sikadur®-30 or Sikadur®-31 CF normal
2. Waterproofing	Sikadur®-30 or Sikadur®-31 CF normal + Sikadur® Combiflex® SG-10 P
3. Floor panel with rubber seal	Sika® FloorJoint PDRS, the rubber seal is bonded with SikaBond® TF plus N
4. Wearing course	e.g. Sikafloor®-156/-161 + Sikadur®-375, broadcast to excess
5. Top coat	e.g. Sikafloor®-359 N

CHARACTERISTICS / ADVANTAGES
- Exchangable rubber seal
- High mechanical and chemical resistance
- Non-corroding
- Waterproof system design possible
- Grindable profile for level integration into the floor surface
- Hardly any vibrations noticeable under direct car or forklift traffic
- Thermal expansion coefficient similar to resin-based floors
- Easy to install / Easy to repair
- Short downtime / Trafficable after 24 h