BUILDING TRUST

SYSTEM DATA SHEET

Sika® FloorJoint PB-30 PDRS

PREFABRICATED POLYMER COMPOSITE FLOOR JOINT PANEL FOR CAR PARKS WITH CONCENTRIC INCORPORATED RUBBER SEAL

PRODUCT DESCRIPTION

Sika® FloorJoint PB-30 PDRS is a prefabricated, carbon fibre reinforced polymer (CFRP) composite floor panel system with high mechanical resistance. It's concentric incorporated rubber seal allows low vibrations under direct car traffic. The rubber seal is exchangeable. Sika® FloorJoint PB-30 PDRS is suitable for vertical and horizontal movements of the concrete slab. The profile is equipped with a recessed flange along both sides, used to blend in with new floor coverings for a smooth transition.

USES

Sika® FloorJoint PB-30 PDRS may only be used by experienced professionals.
Floor joint panel for new build and refurbishment of joints for concrete / concrete screeds with normal up to medium wear e.g. for inner and outer zones of car park decks, garage floors and ramps.

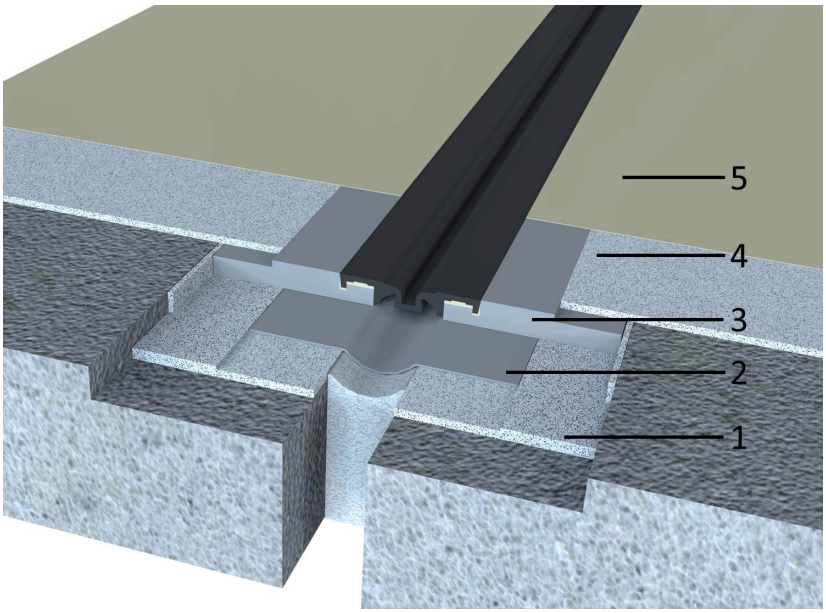
CHARACTERISTICS / ADVANTAGES

- Suitable for vertical and horizontal movements
- Low vibrations noticeable under direct car traffic
- Thermal expansion coefficient similar resin based floors
- Exchangeable rubber seal
- Easy to install / Easy to repair
- Short down time / fit for traffic after 24 h
- Double waterproof system design with integrated Sikadur Combiflex SG System
- Resistant against Chemical & mechanical impact
- Non corroding
- For gaps in the substrate with a maximum width of 50 mm
- Joint movement horizontal: 50 mm (-20/+30 mm)
- Joint movement vertical: 30 mm (-15/+15 mm)
- Grindable profile for level integration into the floor surface
- Equipped with a recessed flange along both side

SYSTEM INFORMATION

System Structure

Sika® FloorJoint PB-30 PDRS



1. Advesive	Sikadur®-31 CF Normal
2. Waterproofing	Sikadur®-31 CF Normal + Sikadur® Combiflex® SG-20 M
3. Floor Panel with Rubber Seal	Sika® FloorJoint PDRS, the rubber seal is gummed up with Sikabond® TF plus N (Sika® Activator 205 is used to prime the panel and the back side of the rubber seal)
4. Wearing course	Sikafloor®-Primer + Sikafloor®-Wear Layer, broadcast in excess
5. Top Coat	Sikafloor®-Top Coat

Chemical base

PUR

TECHNICAL INFORMATION

Joint Design

Maximum gap width[1]:	50 mm
Positive horizontal joint movement[2]:	+30 mm
Negative horizontal joint movement[3]:	-20 mm
Positive vertical joint movement[4]:	+15 mm
Negative vertical joint movement[5]:	-15 mm

[1]Width of the gap in the concrete below Sika® FloorJoint PDRS during installation.
[2]Positive horizontal joint movement is the amount the gap can horizontally open, compared to its original width during installation of Sika® FloorJoint PDRS.
[3]Negative horizontal joint movement is the amount the gap can horizontally close, compared to its original width during installation of Sika® FloorJoint PDRS.
[4]Positive vertical joint movement is the amount the gap can vertically open, compared to its original width during installation of Sika® FloorJoint PDRS.
[5]Negative vertical joint movement is the amount the gap can vertically close, compared to its original width during installation of Sika® FloorJoint PDRS.
Please note: In order to provide water tightness in case a waterproof joint design is required please install Sikadur® Combiflex® SG System below Sika® FloorJoint PDRS first.

APPLICATION INFORMATION

Consumption

Coating	Product	Consumption
Adhesive	Sikadur®-31 CF Normal	~ 3–5 kg/linear meter (dependingof the depth of the cut-out)
Waterprofing	Sikadur®-31 CF Normal + Sikadur® Combiflex® SG-20 M	Adhesive: ~ 1.2 kg/linear meter; Combiflex tape: 1 m/linear meter
Floor Panel	Sika® FloorJoint PDRS + Rubber Seal gummed up with Sikabond® TF plus N	1 panel = two pieces of polymer panels + rubber seal: 1.2 m. ~ 70 g/linear meter
Activator	Sika® Activator 205 is used to prime the panel and the back side of the rubber seal	~ 5 g/linear meter

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.

Ambient Air Temperature

The ideal installation temperature is approx. +15 °C min. / +25 °C max. Refer to the product data sheet of the individual product for specific information.

Relative Air Humidity

80 % r.h. max.

Dew Point

Beware of condensation!
The substrate and uncured floor must be at least 3 °C above dew point to reduce the risk of condensation or blooming on the floor finish.

Substrate Temperature

The ideal installation temperature is approx. +15 °C min. / +25 °C max. Refer to the product data sheet of the individual product for specific information.

Substrate Moisture Content

<4 % pbw moisture content.
Test method: Sika Tramex Meter, CM-measurement or Oven-Dry-Method.
No rising moisture according to ASTM (Polyethylene-sheet).

Waiting Time / Overcoating

Before grinding and applying Sikafloor® Wear Layer on Sikadur®-30/-31 CF Normal + Sika®-FloorJoint PDRS allow:

Substrate Temperature	Minimum	Maximum
+10 °C	24 hours	14 days
+20 °C	12 hours	10 days
+30 °C	8 hours	7 days

Before grinding and applying Sikafloor®-359 N on Sikafloor®-375 allow:

Substrate Temperature	Minimum	Maximum
+10 °C	24 hours	48 hours
+20 °C	15 hours	24 hours
+30 °C	8 hours	16 hours

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

Applied Product Ready for Use

Temperature	Foot Traffic	Light Traffic	Full Cure
+10 °C	24 hours	72 hours	7 days
+20 °C	12 hours	30 hours	5 days
+30 °C	5 hours	24 hours	4 days

Note: Times are approximate and will be affected by changing ambient conditions.

PRODUCT INFORMATION

Packaging	Please refer to individual Product Data Sheet.
Shelf Life	Please refer to individual Product Data Sheet.
Storage Conditions	Please refer to individual Product Data Sheet.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm². The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease. Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. If there are built-in metal profiles, remove them using a angle grinder or cutting torch, being careful not to produce sparks, which might be fire hazard. All dust, loose and friable material must be completely removed from all surfaces before installation of the floor joint panel, preferably by brush and vacuum. For the detailed description how to prepare the cutout, please refer to the Method Statement of Sika® FloorJoint PDRS.

APPLICATION

Please refer to the Information Manual for Sika® FloorJoint PDRS.

FURTHER DOCUMENTS

Please refer to:
- Sika® Information Manual Mixing and Application of Flooring Systems
- Sika® Information Manual Surface Evaluation & Preparation

LIMITATIONS

- The Product shall only be applied in accordance with its intended use.
- For outdoor use only if the traffic speed is imited to <30 km/h (<19 mph), and if the polymer panel is coated with an UV protection e.g. with Sikafloor®-359 N.
- Always store Sika® FloorJoint PDRS panels in horizontal position
- Settlement of the substrate or of the adhesive can result in cracks in Sika® FloorJoint PB-30 PDRS. These cracks do not constitute a defect, since they don't affect the viability and suitability for use.
- Don't exceed the maximum grinding depth of 2 mm. If the maximum grinding depth of 2 mm has been exceeded and the mechanical resistance of the profile is reduced. Replace the panel if the maximum grinding depth has been exceeded.
- Periodically inspect the rubber seal and renew if necessary.
- Contiuously monitor the abrasion of the diamond cutting disk used for preparing the cut-out. Regularly readjust the disk to ensure all cuts are prepared with a constant depth of 25 mm.
- Do not use a hammer for placing and adjusting the floor panel during installation.
- Always refer to the manufacturer's instructions before using tools and mixing equipment.

VALUE BASE

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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