

SYSTEM DATA SHEET

Sika® FloorJoint PB-30 PDRS

CARBON FIBRE PREFABRICATED FLOOR JOINT SYSTEM WITH INTEGRAL SEAL FOR CAR PARKS

PRODUCT DESCRIPTION

Sika® FloorJoint PB-30 PDRS is a carbon fibre reinforced polymer (CFRP) composite, prefabricated, floor joint system with integral replaceable rubber seal and high mechanical resistance. Its concentric integral rubber seal allows low vibrations under direct car traffic. Suitable for concrete slab vertical and horizontal movement. Gap widths: 0–50 mm. Vertical movement: 30 mm.

USES

Sika® FloorJoint PB-30 PDRS may only be used by experienced professionals.

- Floor joint system for new build and refurbished joints in concrete / concrete screeds in:
- Inner and outer zones of car park decks and ramps

CHARACTERISTICS / ADVANTAGES

- Grindable profile for level integration into the floor surface
- Suitable for vertical and horizontal movements
- Low vibrations under direct car traffic
- Thermal expansion coefficient similar to resin based floors
- Replaceable rubber seal
- Easy to install / Easy to repair
- Short down time - Trafficable after 24 hours
- High chemical resistance
- Non corroding
- High mechanical resistance
- Joint movement horizontal: 50 mm (-20/+30 mm)
- Joint movement vertical: 30 mm (-15/+15 mm)
- Recessed flange along both sides of panel
- Double waterproof system design with integrated Sikadur Combiflex SG System

APPROVALS / STANDARDS

- Fire Testing DIN EN 13501-1, Sika® FloorJoint, Hoch, Test report No. PB-Hoch-140803-3
- Fire Testing DIN EN ISO 11925-2, Sika® FloorJoint, Hoch, Test report No. PB-Hoch-140801-3
- Fire Testing DIN EN ISO 9239-1, Sika® FloorJoint, Hoch, Test report No. PB-Hoch-140802-3

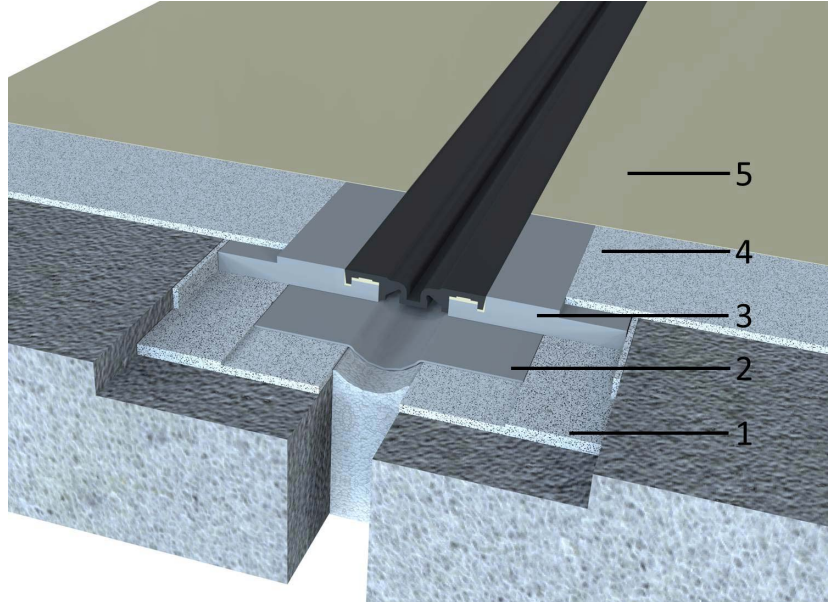
PRODUCT INFORMATION

Packaging	Refer to individual Product Data Sheet.
Shelf Life	Refer to individual Product Data Sheet.
Storage Conditions	Refer to individual Product Data Sheet.

SYSTEM INFORMATION

System Structure

Sika® FloorJoint PB-30 PDRS



1. Adhesive	Sikadur®-31 CF Normal
2. Waterproofing	Sikadur®-31 CF Normal + Sikadur® Combiflex® SG-20 M
3. Floor joint panel	Sika® FloorJoint PDRS, rubber seal is sealed with Sikabond® TF plus N (Sika® Activator 205 is used to prime the panel and the bonding surfaces)
4. Wearing course	Sikafloor®-Primer + Sikafloor®-Wear Layer, broadcast in excess
5. Top coat	Sikafloor®-Top Coat

Composition	Joint Panel	Carbon fibre reinforced polymer
	Seal	Rubber

TECHNICAL INFORMATION

Chemical Resistance	Resistant to many chemicals. Contact Sika Technical Services for specific information.
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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

¹Width of the gap in the concrete below Sika® FloorJoint PDRS during installation.

²Positive horizontal joint movement is the amount the gap can horizontally open, compared to its original width during installation of Sika® FloorJoint PDRS.

³Negative horizontal joint movement is the amount the gap can horizontally close, compared to its original width during installation of Sika® FloorJoint PDRS.

⁴Positive vertical joint movement is the amount the gap can vertically open, compared to its original width during installation of Sika® FloorJoint PDRS.

⁵Negative vertical joint movement is the amount the gap can vertically close, compared to its original width during installation of Sika® FloorJoint PDRS.

Note: To provide a waterproof joint, first, install Sikadur® Combiflex® SG System below the Sika® FloorJoint PB-30 PDRS.

APPLICATION INFORMATION

Consumption	Coating	Product	Consumption
	Adhesive	Sikadur®-31 CF Normal	~ 3–5 kg/linear meter (depending of the depth of the cut-out)
	Waterproofing	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	<p>Before grinding and applying Sikafloor® Wear Layer on Sikadur®-30/-31 CF Normal + Sika®-FloorJoint PDRS allow:</p> <table border="1"> <thead> <tr> <th>Substrate Temperature</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>+10 °C</td> <td>24 hours</td> <td>14 days</td> </tr> <tr> <td>+20 °C</td> <td>12 hours</td> <td>10 days</td> </tr> <tr> <td>+30 °C</td> <td>8 hours</td> <td>7 days</td> </tr> </tbody> </table> <p>Before grinding and applying Sikafloor®-359 N on Sikafloor®-375 allow:</p> <table border="1"> <thead> <tr> <th>Substrate Temperature</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>+10 °C</td> <td>24 hours</td> <td>48 hours</td> </tr> <tr> <td>+20 °C</td> <td>15 hours</td> <td>24 hours</td> </tr> <tr> <td>+30 °C</td> <td>8 hours</td> <td>16 hours</td> </tr> </tbody> </table> <p>Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.</p>	Substrate Temperature	Minimum	Maximum	+10 °C	24 hours	14 days	+20 °C	12 hours	10 days	+30 °C	8 hours	7 days	Substrate Temperature	Minimum	Maximum	+10 °C	24 hours	48 hours	+20 °C	15 hours	24 hours	+30 °C	8 hours	16 hours
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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.

APPLICATION INSTRUCTIONS

APPLICATION

Please refer to the Information Manual for Sika® Floor-Joint 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 limited 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.
- Continuously 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.
- Periodically inspect the rubber seal and renew if necessary.

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-re-

lated 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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