

SYSTEM DATA SHEET

Sika® FloorJoint PB-30 PDRS

Prefabricated, carbon fibre-reinforced floor joint system with rubber seal for car parks

DESCRIPTION

Sika® FloorJoint PB-30 PDRS is a prefabricated, carbon fibre-reinforced polymer (CFRP) floor joint system with high mechanical resistance. It comes with a concentric, replaceable rubber seal that minimizes vibrations caused by direct car traffic. It is suitable for vertical and horizontal movements of the concrete slab on either side of the joint, with a vertical movement of up to 30 mm. The System is used for substrate gaps ranging from 0 mm to 50 mm in width.

USES

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

Sika® FloorJoint PB-30 PDRS is used as a floor joint system for newly-built and refurbished joints in concrete or concrete screeds in:

- Car park decks and ramps

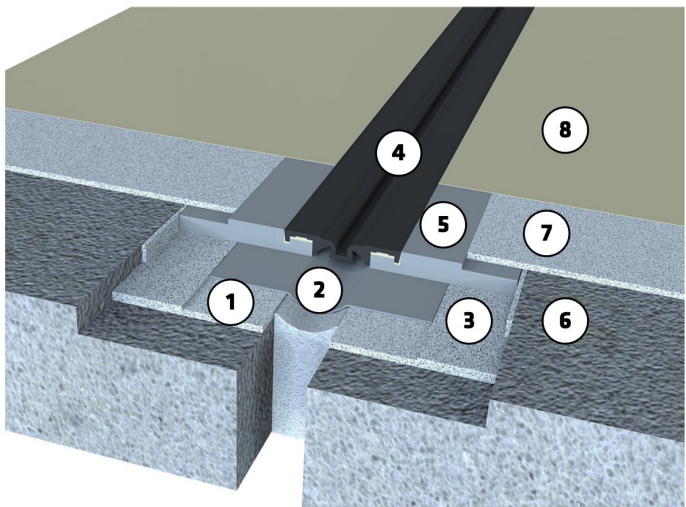
Sika® FloorJoint PB-30 PDRS is used for interior and exterior applications.

Please note:

- The System may only be used by experienced professionals.

CHARACTERISTICS / ADVANTAGES

- Grindable profile for level integration into the floor surface
- Suitable for vertical and horizontal movements
- Reduces 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 - open to traffic after 24 hours
- Very good resistance to specific chemicals
- Non-corroding
- Very good mechanical resistance
- Recessed flange along both sides of panel
- Doubly waterproof system design with integrated Sikadur-Combiflex® SG System
- Horizontal joint movement: 50 mm (-20 mm and +30 mm)
- Vertical joint movement: 30 mm (-15 mm and +15 mm)



Product	Layer
1. Adhesive	Sikadur®-31 CF Normal
2. Waterproofing membrane	Sikadur-Combiflex® SG-20 M
3. Adhesive	Sikadur®-31 CF Normal
4. Joint panel	Sika® FloorJoint PDRS Rubber seal bonded with Sika-bond® TF plus N
5. Bonding agent	Sika® Aktivator-205
6. Primer	Sikafloor® Primer(please contact with Sika Technical)
7. Wearing layer	Sikafloor®-Wear layer(please contact with Sika Technical) Quartz sand broadcast in excess
8. Top coat	Sikafloor®-Top coat(please contact with Sika Technical)

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

IMPORTANT

Damage due to exceeded positive joint movement capacity

Exceeding the maximum positive joint movement capacity can result in the Sika® FloorJoint panel becoming unsupported, increasing the risk of damage.

1. Do not exceed the maximum positive joint movement capacity.

Maximum gap width ¹	Positive horizontal joint movement ²	Negative horizontal joint movement ³	Positive vertical joint movement ²	Negative vertical joint movement ³
50 mm	+30 mm	-20 mm	+15 mm	-15 mm

¹ Maximum gap width is the width of the gap in the concrete under the

Sika® FloorJoint panel during installation.

² Positive joint movement is indicated by how much the joint can expand compared to its original width during the installation of the Sika® FloorJoint panel.

³ Negative joint movement is indicated by how much the joint can contract compared to its original width during the installation of the Sika® FloorJoint panel.

Install Sikadur-Combiflex® SG System under the Sika® FloorJoint panel if a waterproof joint design is required.

APPLICATION INFORMATION

Consumption	Function	Product	Consumption
	Adhesive	Sikadur®-31 CF Normal	3–5 kg per linear metre (depending on the depth of the cut-out)
	Waterproofing membrane	Sikadur-Combiflex® SG-20 M	1 m/m
	Adhesive	Sikadur®-31 CF Normal	~ 1.2 kg/m
	Floor joint panel	Sika® FloorJoint PDRS Rubber seal bonded with Sikabond® TF plus N	1 piece per 1.195 linear metres 70 g/m
	Bonding agent	Sika® Aktivator-205	~ 5 g/m

Consumption is defined per m of joint length or per m² of joint surface area.

Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply the Product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.

Ambient Air Temperature	Maximum	+25 °C
	Minimum	+15 °C

Also refer to the individual Product Data Sheets.

Relative Air Humidity	Maximum	80 %
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Dew Point

Beware of condensation. The substrate and uncured applied product must be at least +3 °C above the dew point to reduce the risk of condensation or blooming on the surface of the applied product. Low temperatures and high humidity conditions increase the probability of blooming.

Substrate Temperature	Maximum	+25 °C
	Minimum	+15 °C

Also refer to the individual Product Data Sheets.

Waiting Time / Overcoating

Waiting time before applying the adhesive and the Sika® FloorJoint panel on the waterproofing layer

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

Waiting time before grinding and applying the wearing layer on the installed Sika® FloorJoint panel

Substrate temperature	Minimum	Maximum
+10 °C	17 hours	3 days
+20 °C	9 hours	2 days
+30 °C	7 hours	1 day

Waiting time before grinding and applying the top coat on the wearing lay-

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Substrate temperature	Minimum	Maximum
+10 °C	24 hours	48 hours
+20 °C	12 hours	24 hours
+30 °C	5 hours	16 hours

Note: 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	48 hours	72 hours	7 days
	+20 °C	24 hours	30 hours	5 days
	+30 °C	16 hours	24 hours	4 days

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

BASIS OF PRODUCT DATA

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.

FURTHER DOCUMENTS

Reference must be made to the following Sika® Method Statements:

- Sika Method Statement — Evaluation and preparation of surfaces for flooring systems
- Sika Method Statement 8508410 Sikafloor® mixing and application
- Sika Method Statement: Sika® FloorJoint PDRS

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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

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.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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