

# PRODUCT DATA SHEET

## Sika® FloorJoint PD

### PREFABRICATED POLYMER COMPOSITE FLOOR JOINT PANEL FOR CAR PARKS

#### PRODUCT DESCRIPTION

Sika® FloorJoint PD is a prefabricated, carbon fibre reinforced polymer (CFRP) composite floor panel with high mechanical resistance. Its waved joint design allows for an improved load distribution and results in minimum vibrations under direct car and forklift traffic. The profile is equipped with a recessed flange along both sides, used to blend in with new floor coverings for a smooth transition. Sika® FloorJoint PD is the main part of the Sika® FloorJoint PB-30 PD System.

#### USES

Sika® FloorJoint PD 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 car park decks, garage floors, ramps and floors in warehouses.

#### CHARACTERISTICS / ADVANTAGES

- Grindable profile for level intergration into the floor surface
- Hardly any vibrations noticeable under direct car or forklift traffic
- Thermal expansion coefficient similar resin based floors
- Easy to install / Easy to repair
- Short down time / Trafficable after 24 h
- Waterproof system design possible
- High chemical resistance
- Non corroding
- High mechanical resistance
- For gaps in the substrate with a maximum width of 60 mm (maximum positive joint movement = 40 mm)

#### APPROVALS / STANDARDS

Reaction to fire classification according to DIN EN 13301-1. Test report No.: KB-Hoch-140803.

#### PRODUCT INFORMATION

<b>Chemical Base</b>	PUR
<b>Packaging</b>	84 pieces on an EU-pallet. Weight: approx. 10.0 kg/piece.
<b>Appearance / Colour</b>	approx. RAL 7037
<b>Shelf Life</b>	3 years from date of production if stored properly in original unopened, sealed and undamaged packaging.
<b>Storage Conditions</b>	Sika® FloorJoint PD must be stored properly in original unopened, sealed and undamaged packaging in cool and dry conditions at temperatures between +5 °C and +30 °C. Sika® FloorJoint PD must always be stored in horizontal position in order to avoid bending.
<b>Dimensions</b>	Length × width × height: approx. 1200 × 250 × 15/20 mm.

## TECHNICAL INFORMATION

<b>Compressive Strength</b>	~80 N/mm <sup>2</sup> (after 14 days at 23 °C / 50 % r.h)	(DIN EN 196-1)
<b>Tensile Strength</b>	~30 N/mm <sup>2</sup> (after 14 days at 23 °C / 50 % r.h)	(DIN EN 196-1)
<b>Reaction to Fire</b>	Bfl s1 (composite material of Sika® FloorJoint PD)	(EN 13301-1)
<b>Chemical Resistance</b>	Contact Sika technical service for specific information.	

<b>Joint Design</b>	<b>Gap width<sup>1</sup></b>	<b>Positive joint movement<sup>2, 4</sup></b>	<b>Negative joint movement<sup>3</sup></b>
	0 mm	+ 40.0 mm	- 0 mm
5 mm	+ 37.5 mm	- 5 mm	
10 mm	+ 35.0 mm	- 5 mm	
15 mm	+ 32.5 mm	- 5 mm	
20 mm	+ 30.0 mm	- 5 mm	
25 mm	+ 27.5 mm	- 5 mm	
30 mm	+ 25.0 mm	- 5 mm	
35 mm	+ 22.5 mm	- 5 mm	
40 mm	+ 20.0 mm	- 5 mm	
45 mm	+ 17.5 mm	- 5 mm	
50 mm	+ 15.0 mm	- 5 mm	
55 mm	+ 12.5 mm	- 5 mm	
60 mm	+ 10.0 mm	- 5 mm	

1. Width of the gap in the concrete below Sika® FloorJoint PD during installation.
2. Positive joint movement is the amount the gap can open, compared to its original width during installation of Sika® FloorJoint PD. Don't exceed the maximum positive joint movement capacity, otherwise the teeth of the Sika® FloorJoint PD become unsupported and may break.
3. Negative joint movement is the amount the gap can close, compared to its original width during installation of Sika® FloorJoint PD.
4. The sealant may break at a positive joint movement of approx. 10–15 mm, however this does not affect the technical performance of Sika® FloorJoint PD. The purpose of the joint sealant is the reduction of dirt pick-up in the joint, not to provide water tightness. Install Sikadur® Combiflex® SG System below Sika® FloorJoint PD in case a waterproof joint design is required

## SYSTEM INFORMATION

<b>Systems</b>	Please refer to the System Data Sheet of: <b>Sika® FloorJoint PB-30 PD</b> Floor Joint Panel for inner zones of car parks and ramps.
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## APPLICATION INFORMATION

<b>Consumption</b>	1 piece per 1.2 linear meter of joint
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## APPLICATION INSTRUCTIONS

Refer to the Sika Information Manual: Sika® FloorJoint PD

## FURTHER DOCUMENTS

### Substrate Quality & Preparation

Sika Information Manual: "EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS".

### Application Instructions

Sika Information Manual: "Sika® FloorJoint PD".

## 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.
- Always store Sika® FloorJoint PD panels in horizontal position.
- Never remove the masking tape affixed to the bottom side of the Sika® FloorJoint PD panel. The masking tape is necessary to keep the two composite parts of the panel separate, allowing the movement of the joint after installation.
- No relative vertical displacement of concrete slabs on

both sides of the joint. Apply appropriate measures like anchoring/bolting or ground consolidation by injection prior to installation of Sika® FloorJoint PD if necessary.

- Don't exceed the maximum positive joint movement capacity, otherwise the teeth of the Sika® FloorJoint PD become unsupported and may break.
- Settlement of the substrate or of the adhesive can result in cracks in Sika® FloorJoint PD. 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 after grinding the letters on the top surface of Sika® FloorJoint PD are no longer visible 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.
- The sealant may break at a positive joint movement of approx. 10–15 mm, however this does not affect the technical performance of Sika® FloorJoint PD. The purpose of the joint sealant is the reduction of dirt pick-up in the joint, not to provide water tightness. Install Sikadur® Combiflex® SG System below Sika® FloorJoint PD in case a waterproof joint design is required.
- Periodically inspect the joint sealing material 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.
- 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

### REGULATION (EC) NO 1907/2006 - REACH

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in this product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high con-

cern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w)

## 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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