

## SYSTEMDATENBLATT

# Sika® FloorJoint PB-30 PD

Prefabricated Floor Joint Panel for carparks and ramps

### BESCHREIBUNG

Sika® FloorJoint PB-30 PD is a prefabricated, carbon fibre reinforced polymer composite floor panel system with high mechanical resistance. It's waved joint design allows for improved load distribution and results in minimum vibrations under direct car and forklift traffic.

The Sika® Floor-Joint PD panel is equipped with a lowered flange along both sides for over coating with the intended floor covering.

### ANWENDUNG

Sika® FloorJoint PB-30 PD ist nur für die Anwendung durch gewerbliche Verarbeiter bestimmt.

Sika® FloorJoint PB-30 PD system is used in new build and refurbishment of joints in concrete or concrete screeds with normal up to medium wear, for example for car park decks, garage floors, ramps and floors in warehouses.

### PRODUKTMERKMALE/ VORTEILE

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

### PRÜFZEUGNISSE

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

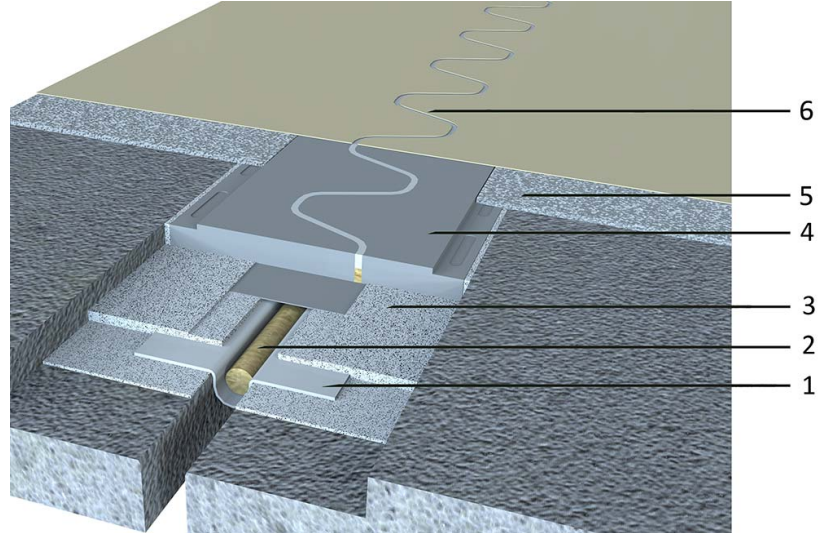
## PRODUKTINFORMATIONEN

<b>Lieferform</b>	Please refer to individual Product Data Sheet.
<b>Lagerfähigkeit</b>	Please refer to individual Product Data Sheet.
<b>Lagerbedingungen</b>	Please refer to individual Product Data Sheet.

## SYSTEMINFORMATIONEN

### Systemaufbau

### Sika® FloorJoint PB-30 PD



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	Sikafloor®-156/161 + Sikafloor®-375, broadcast in excess
6. Top coat	e.g. Sikafloor®-359 N

<b>Chemische Basis System</b>	PUR
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## TECHNISCHE INFORMATIONEN

<b>Brandverhalten</b>	Bfl s1 (composite material of Sika® FloorJoint S panel)	(EN 13301-1)
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## Fugenkonstruktion

Gap width <sup>1</sup>	Positive joint movement <sup>2</sup>	Negative joint movement <sup>3</sup>
0 mm	+40.0 mm <sup>4</sup>	-0 mm
5 mm	+37.5 mm <sup>4</sup>	-5 mm
10 mm	+35.0 mm <sup>4</sup>	-5 mm
15 mm	+32.5 mm <sup>4</sup>	-5 mm
20 mm	+30.0 mm <sup>4</sup>	-5 mm
25 mm	+27.5 mm <sup>4</sup>	-5 mm
30 mm	+25.0 mm <sup>4</sup>	-5 mm
35 mm	+22.5 mm <sup>4</sup>	-5 mm
40 mm	+20.0 mm <sup>4</sup>	-5 mm
45 mm	+17.5 mm <sup>4</sup>	-5 mm
50 mm	+15.0 mm <sup>4</sup>	-5 mm
55 mm	+12.5 mm <sup>4</sup>	-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 Sika® FloorJoint PD become unsupported below 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 PB-30 PD. The purpose of the joint sealant is the reduction of dirt pick-up, not to provide water tightness, but the possibility to reduce dirt pick-up in the joint. Install Sikadur® Combiflex® SG System below Sika® FloorJoint PD in case a waterproof joint design is required.

## ANWENDUNGSGSINFORMATIONEN

### Materialverbrauch

#### Sika® FloorJoint PB-30 PD System:

Coating	Product	Consumption
Waterproofing	Sikadur®-30 Normal or Sikadur®-31 Normal + Sikadur® Combiflex® SG-10 P	Adhesive: ~ 1.2 kg/linear meter; Combiflex tape: 1 m/linear meter
Backing rod	Sika® Backing rod (size according the width of the joint)	1 m/linear meter
Adhesive	Sikadur®-30 Normal or Sikadur®-31 Normal	~ 3–5 kg/linear meter (depending of the depth of the cut-out)
Floor Panel	Sika® FloorJoint PD jointed with Sikaflex® Pro 3	1 piece for 1.2 linear meter
Primer & base coat	Sikafloor®-156/161 Sikafloor®-375, broadcast in excess with QS 0.7–1.2 mm*	~ 0.3–0.5 kg/m <sup>2</sup> ~ 1.5–1.8 kg/m <sup>2</sup> ~ 4.0–6.0 kg/m <sup>2</sup>
Top Coat	Sikafloor®-359 N	~ 0.9 kg/m <sup>2</sup>

\* Alternative broadcast can be done by using quartz sand 0.4–0.8 mm at the respective covering rate of the top coat. Please check the individual Product Data Sheet.

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

### Lufttemperatur

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 Luftfeuchtigkeit

80 % r.h. max.

### Taupunkt

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.

### Untergrundtemperatur

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.

<b>Untergrundfeuchtigkeit</b>	<4 % pbw moisture content. Test method: Sika Tramex Meter, CM-measurement or Oven-Dry-Method. No rising moisture according to ASTM (Polyethylene-sheet).
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**Wartezeit zwischen den Arbeitsgängen** Before applying Sikadur®-30/-31 Normal + Sika®-FloorJoint S on Sikadur®-30/-31 Normal + Sika®-FloorJoint S allow:

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

Before grinding and applying Sikafloor®-375 on Sikadur®-30/-31 Normal + Sika®-FloorJoint S allow:

<b>Substrate Temperature</b>	<b>Minimum</b>	<b>Maximum</b>
+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:

<b>Substrate Temperature</b>	<b>Minimum</b>	<b>Maximum</b>
+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.

<b>Wartezeit bis zur Nutzung</b>	<b>Temperature</b>	<b>Foot traffic</b>	<b>Light traffic</b>	<b>Full cure</b>
	+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.

## VERARBEITUNGSANWEISUNG

### UNTERGRUNDQUALITÄT / VORBEREITUNG

The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>.

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 cut-out, please refer to the Method Statement of Sika® FloorJoint PD.

### VERARBEITUNG

Please refer to the Method Statement of Sika® FloorJoint PD.

### WEITERE DOKUMENTE

Please refer to:

- Sika® Method Statement Mixing and Application of Flooring Systems
- Sika® Method Statement Surface Evaluation & Preparation

### WEITERE HINWEISE

- Products shall only be applied in accordance with their 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 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 PB-30 PD if necessary.

- Do not exceed the maximum positive joint movement capacity, otherwise the teeth of Sika® FloorJoint PD become unsupported below and may crack.
- Settlement of the subsurface or of the adhesive can lead to cracks in Sika® FloorJoint PD. These cracks do not constitute a defect, since it does not 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 the Sika FloorJoint® PD panel 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 joint movement of the building parts must be calculated by a structural engineer and made available to all parties involved
- 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 PB-30 PD in case a waterproof joint design is required.
- Periodically inspect the joint sealing material and renew if necessary.
- Continuously check 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

## MESSWERTE

Alle technischen Daten, Maße und Angaben in diesem Datenblatt beruhen auf Labortests. Tatsächlich gemessene Daten können in der Praxis aufgrund von Umständen außerhalb unseres Einflussbereiches abweichen.

## LÄNDERSPEZIFISCHE DATEN

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Vor der Verarbeitung der Produkte muss der Anwender die dazugehörigen, aktuellen Sicherheitsdatenblätter (SDB) lesen. Das SDB gibt Informationen und Hinweise zur sicheren Handhabung, Lagerung und Entsorgung von chemischen Produkten und enthält physikalische, ökologische, toxikologische sowie weitere sicherheitsrelevante Daten.

## RECHTLICHE HINWEISE

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Produktdatenblatt, das von uns angefordert oder im Internet unter [www.sika.de](http://www.sika.de) heruntergeladen werden kann.

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