

SYSTEM DATA SHEET

Sika® FloorJoint PB-30 PD

PREFABRICATED FLOOR JOINT PANEL FOR CARPARKS AND RAMPS

DESCRIPTION

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 fork-lift traffic.

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

USES

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

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.

CHARACTERISTICS / ADVANTAGES

- 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)

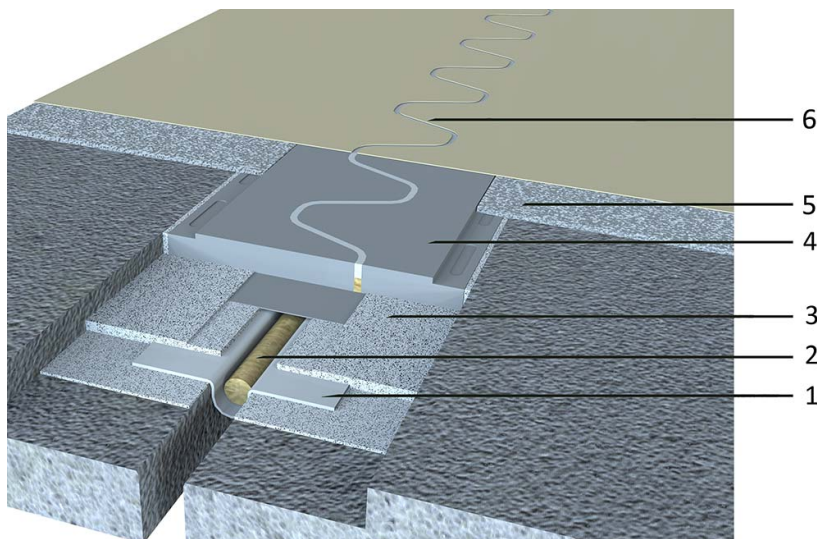
APPROVALS / STANDARDS

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

SYSTEM INFORMATION

System Structure

Sika® FloorJoint PB-30 PD



| | |
|-------------------|--|
| 1. Waterproofing | Sikadur®-31 CF Normal + Sikadur® Combiflex® SG system |
| 2. Backing rod | Sika® Backer Rod, rod diameter should be approximately 25% larger than the joint width |
| 3. Adhesive | Sikadur®-31 CF Normal |
| 4. Floor panel | Sika® FloorJoint PD jointed with Sikaflex® Pro-3 |
| 5. Wearing course | Sikafloor®-161 HC + Sikafloor®-375, broadcast in excess |
| 6. Top coat | Sikafloor®-359 MYG |

Composition PUR

TECHNICAL INFORMATION

Reaction to Fire Bfl s1 (composite material of Sika® FloorJoint S panel) (EN 13301-1)

Joint Design

| Gap width ¹ | Positive joint movement ² | Negative joint movement ³ |
|------------------------|--------------------------------------|--------------------------------------|
| 0 mm | +40.0 mm ⁴ | -0 mm |
| 5 mm | +37.5 mm ⁴ | -5 mm |
| 10 mm | +35.0 mm ⁴ | -5 mm |
| 15 mm | +32.5 mm ⁴ | -5 mm |
| 20 mm | +30.0 mm ⁴ | -5 mm |
| 25 mm | +27.5 mm ⁴ | -5 mm |
| 30 mm | +25.0 mm ⁴ | -5 mm |
| 35 mm | +22.5 mm ⁴ | -5 mm |
| 40 mm | +20.0 mm ⁴ | -5 mm |
| 45 mm | +17.5 mm ⁴ | -5 mm |
| 50 mm | +15.0 mm ⁴ | -5 mm |
| 55 mm | +12.5 mm ⁴ | -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.

APPLICATION INFORMATION

Consumption

Sika® FloorJoint PB-30 PD System:

| Coating | Product | Consumption |
|--------------------|--|---|
| Waterproofing | Sikadur®-31 CF Normal + Sikadur® Combiflex® SG system | Adhesive: ~ 1.2 kg/linear meter; Combiflex tape: 1 m/linear meter |
| Backing rod | Sika® Backer Rod, rod diameter should be approx. 25% larger than the joint width | 1 m/linear meter |
| Adhesive | Sikadur®-31 CF Normal | ~ 3–5 kg/linear meter (depending on 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®-161 HC Sikafloor®-375, broadcast in excess with Quartz Sand 0.7–1.2 mm* (Sikadur®-509) | ~ 0.3–0.5 kg/m ² ~ 1.5–1.8 kg/m ² ~ 4.0–6.0 kg/m ² |
| Top Coat | Sikafloor®-359 MYG | ~ 0.9 kg/m ² |

* Alternative broadcast can be done by using quartz sand 0.3–0.9 mm (Sikadur®-501) 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.

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 applying Sikadur®-31 CF Normal + Sika®-FloorJoint PB-30 PD on Sikadur®-31 CF Normal + Sikadur® Combiflex SG system 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®-375 on Sika®-FloorJoint PB-30 PD allow:

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

Before applying Sikafloor®-359 MYG 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 cut-out, please refer to the Method Statement of Sika® FloorJoint PD.

APPLICATION

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

FURTHER DOCUMENTS

Please refer to:

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

IMPORTANT CONSIDERATIONS

- 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 re-adjust 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

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.

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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Sika® FloorJoint PB-30 PD
October 2017, Version 01.01
020816900000000002

SikaFloorJointPB-30PD-en-MY-(10-2017)-1-1.pdf