BUILDING TRUST

SYSTEM DATA SHEET

Sika® FloorJoint PS-30 S

CARBON FIBRE PREFABRICATED FLOOR JOINT SYSTEM

PRODUCT DESCRIPTION

Sika® FloorJoint PS-30 S is a carbon fibre reinforced polymer (CFRP) composite, prefabricated, floor joint system with high mechanical resistance for normal up to medium wear loading conditions. Its sinusoidal surface tooth profile allows for an improved load distribution and results in minimum vibrations under direct car and forklift traffic. Gap widths: 0 – 30 mm.

USES

Sika® FloorJoint PS-30 S may only be used by experienced professionals.

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

CHARACTERISTICS / ADVANTAGES

- Grindable profile for level integration into the floor surface
- Reduced vibrations under direct car and forklift traffic
- Thermal expansion coefficient similar to resin based floors
- Easy to install
- Easy to repair
- Short down time - Trafficable after only 24 hours
- Waterproof system design possible
- High chemical resistance
- Non corroding
- High mechanical resistance

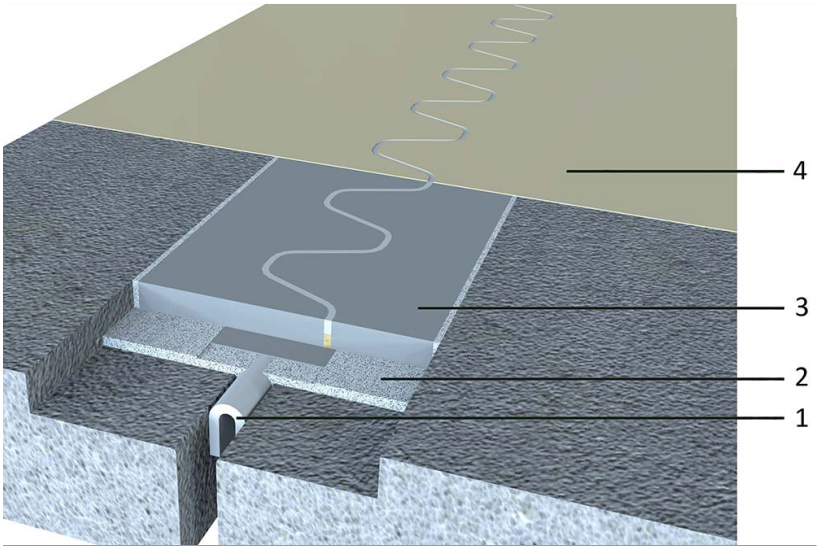
APPROVALS / STANDARDS

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

SYSTEM INFORMATION

System Structure

Sika® FloorJoint PS-30 S:



1. Backing rod	Screed edge stripping. Height: 80 mm–100 mm, thickness 5 mm.
2. Adhesive	Sikadur®-31 EF / Sikadur®-31+ Slow
3. Floor joint panel	Sika® FloorJoint S
4. Floor coating	e.g. Sikafloor®-264/-263 SL

Composition

Floor joint panel: Carbon fibre reinforced polymer.

TECHNICAL INFORMATION

Reaction to Fire

Bfl s1 (composite material of joint panel) (EN 13301-1)

Chemical Resistance

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

Joint Design

Gap width[1]	Positive joint movement[2]	Negative joint movement[3]
0 mm	+20 mm [4]	-0 mm
5 mm	+17.5 mm [4]	-5 mm
10 mm	+15 mm [4]	-5 mm
15mm	+12.5mm [4]	-5 mm
20 mm	+10 mm [4]	-5 mm
25 mm	+7.5 mm	-5 mm
30 mm	+5 mm	-5 mm

1. Width of the gap in the concrete below Sika® floor Joint panel during installation.
2. Positive joint movement is the amount the gap can open, compared to the original width during installation of Sika® floor Joint panel. Do not exceed the maximum positive joint movement capacity, otherwise the teeth of the Sika® floor Joint panel become unsupported and may be damaged.
3. Negative joint movement is the amount the gap can close, compared to the original width during installation of the Sika® floor Joint panel.
4. The sealant may break at a positive joint movement of ~10 – 15 mm, however this does not affect the technical performance of Sika® FloorJoint PS-30 S. 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 PS-30 S if a waterproof joint design is required.

APPLICATION INFORMATION

Consumption

Sika® FloorJoint PS-30 S System:

Component	Product	Consumption
Adhesive	Sikadur®-31 EF / Sikadur®-31+ Slow	~3–5 kg / linear metre (depending on the depth of the cut-out)
Floor joint panel	Sika® FloorJoint S	1 piece for 1.2 linear metre
Top coat	Sikafloor®-Top Coat	Refer to relevant system 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 grinding and applying Sikafloor®-Top Coat on Sikadur® adhesive and Sika®-FloorJoint S allow:

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

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	72 hours	6 days	10 days
+20 °C	24 hours	4 days	7 days
+30 °C	18 hours	2 days	5 days

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

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.

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.

FURTHER DOCUMENTS

- Sika® Information Manual Mixing and Application of Flooring Systems.
- Sika® Information Manual Surface Evaluation and Preparation.

LIMITATIONS

- 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 UV protection (e.g. with Sikafloor®-263 SL/ -264).
- Always store Sika FloorJoint® S panels in a horizontal position.
- Never remove the masking tape affixed to the bottom side of the Sika® FloorJoint S 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 PS-30 S if necessary.
- Do not exceed the maximum positive joint movement capacity, otherwise the teeth of the Sika FloorJoint® S become unsupported and may break.
- Settlement of the substrate or of the adhesive can result in cracks in Sika FloorJoint® S. These cracks do not constitute a defect, since they do not affect the viability and suitability for use.
- Do not exceed the maximum grinding depth of 2 mm. If after grinding the letters on the top surface of Sika FloorJoint® S 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 PS-30 S. 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 PS-30 S in case a waterproof joint design is required.
- Contiuously 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.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

APPLICATION

Refer to the Information Manual for Sika® FloorJoint S.

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.

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