

SYSTEM DATA SHEET

Sika® FloorJoint PS-30 S

PREFABRICATED POLYMER COMPOSITE FLOOR JOINT SYSTEM

PRODUCT DESCRIPTION

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

USES

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

Sika® FloorJoint PS-30 S system is used in new build and refurbishment of joints for concrete / concrete screeds with normal up to medium wear e.g. for storage and assembly halls, maintenance workshops, hospitals, schools and ware houses. Particularly used in the food and pharmaceutical industries, for show rooms, workshops, warehouses and production areas etc.

CHARACTERISTICS / ADVANTAGES

- Grindable joint profile for level integration into the floor surface
- Hardly any vibrations noticeable 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 24 h
- Waterproof system design possible
- High chemical resistance
- High mechanical resistance
- Non corroding
- For gaps in the substrate with a width of maximum 30 mm (max. positive joint movement = 20 mm)

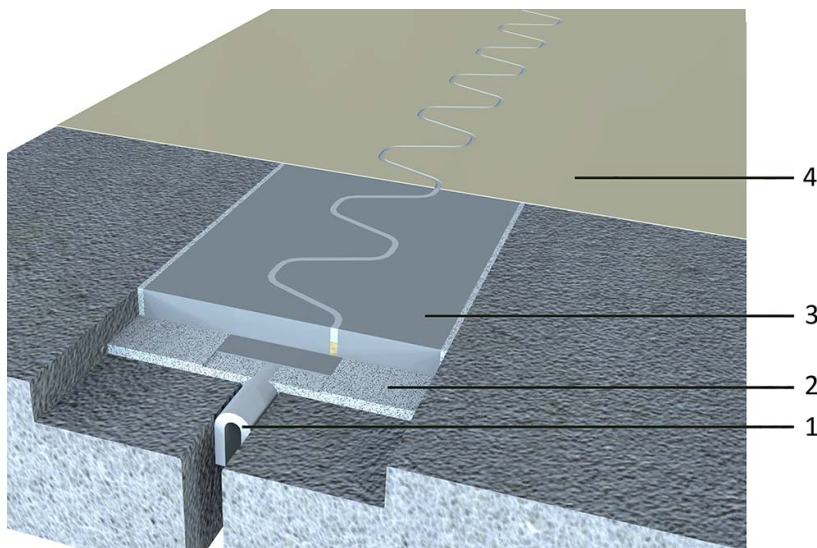
APPROVALS / STANDARDS

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

SYSTEM INFORMATION

System Structure

Sika® FloorJoint PS-30 S:



1. Backing rod	Screed edge stripping supplied in rolls of 50 m. Height: 80 mm–100 mm, thickness 5 mm.
2. Adhesive	Sikadur®-31 CF Normal
3. Floor panel	Sika® FloorJoint S
4. Floor coating	e.g. Sikafloor®-264/-263 SL

Chemical base

PUR

TECHNICAL INFORMATION

Reaction to Fire

Bfl s1 (composite material of Sika® FloorJoint S panel)

(EN 13301-1)

Chemical Resistance

Contact Sika technical service 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
15 mm	+12.5 mm 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® FloorJoint PS-30 S during installation.
2. Positive joint movement is the amount the gap can open, compared to its original width during installation of Sika® FloorJoint PS-30 S. Don't exceed the maximum positive joint movement capacity, otherwise the teeth of the Sika® FloorJoint PS-30 S 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 PS-30 S.
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 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.

APPLICATION INFORMATION

Consumption	Sika® FloorJoint PS-30 S System:		
	Coating	Product	Consumption
	Adhesive	Sikadur®-31 CF Normal	~3–5 kg/linear meter (depending on the depth of the cut-out)
	Floor Panel	Sika® FloorJoint S	1 piece for 1.2 linear meter
	Top Coat	Sikafloor®-263 SL/ -264	Refer to relevant System Datasheet
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®-263 SL/-234 on Sikadur®-31 CF Normal + 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
	+10 °C	72 hours	6 days
	+20 °C	24 hours	4 days
	+30 °C	18 hours	2 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 an 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.

Refer to the Information Manual for Sika® FloorJoint S

for detailed description how to prepare the cut-out.

APPLICATION

Refer to the Information Manual for Sika® FloorJoint S.

FURTHER DOCUMENTS

- Sika® Information Manual Mixing and Application of Flooring Systems
- Sika® Information Manual Surface Evaluation & 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 an UV protection e.g. with Sikafloor®-263 SL/ -264.
- Always store Sika FloorJoint® S panels in 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.
- Don't 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 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® 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
- 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

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

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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SikaFloorJointPS-30S_en_GB_(07-2017)_1_1.pdf

System Data Sheet
Sika® FloorJoint PS-30 S
July 2017, Version 01.01
020816900000000001