

SYSTEM DATA SHEET

Sika® FloorJoint PS-30 XS

PREFABRICATED POLYMER COMPOSITE FLOOR JOINT PANEL

DESCRIPTION

Sika® FloorJoint PS-30 XS 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. Sika® FloorJoint PS-30 XS is a (small) variation of Sika® FloorJoint PS-30 S.

USES

Sika® FloorJoint PS-30 XS may only be used by experienced professionals.
Sika® FloorJoint PS-30 XS is a floor joint system for new build and refurbishment of joints for concrete / concrete screeds for normal wear with minor joint movements e.g. for inner zones of storage and assembly halls, maintenance workshops, hospitals, schools and ware houses. Particularly used in the food and pharmaceutical industries, for show rooms, workshops, ware houses and production areas.

CHARACTERISTICS / ADVANTAGES

- Grindable profile for level integration into the floor surface
- Thermal expansion coefficient similar to resin based floors
- Waterproof system design possible
- Hardly any vibrations noticeable under direct car and forklift traffic
- 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 5 mm (max. positive joint movement = 3 mm)

APPROVALS / STANDARDS

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

PRODUCT INFORMATION

Packaging Please refer to individual Product Data Sheet.

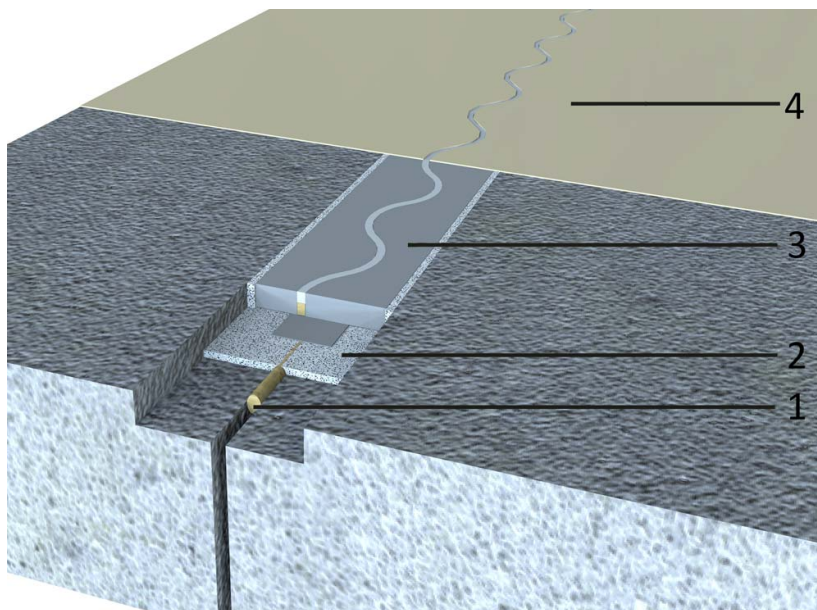
Shelf Life Please refer to individual Product Data Sheet.

Storage Conditions Please refer to individual Product Data Sheet.

SYSTEM INFORMATION

System Structure

Sika® FloorJoint PS-30 XS



| | |
|------------------|--|
| 1. Backing rod | Sika® Backer Rod, diameter should be approximately 25% larger than the joint |
| 2. Adhesive | Sikadur®-30 or Sikadur®-31 CF Normal |
| 3. Floor panel | Sika® FloorJoint XS |
| 4. Floor coating | e.g. Sikafloor®-2530 W LP/-264 HC/-263 SL HC |

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 |
|------------------------|--------------------------------------|--------------------------------------|
| 1 mm | + 3.0 mm | - 1 mm |
| 2 mm | + 3.0 mm | - 2 mm |
| 3 mm | + 3.0 mm | - 2 mm |
| 4 mm | + 2.0 mm | - 2 mm |
| 5 mm | + 1.0 mm | - 2 mm |

1. Width of the gap in the concrete below Sika® FloorJoint XS during installation.

2. Positive joint movement is the amount the gap can open, compared to its original width during installation of Sika® FloorJoint XS. Don't exceed the maximum positive joint movement capacity, otherwise the teeth of the Sika® FloorJoint XS 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 XS.

APPLICATION INFORMATION

| Consumption | Sika® FloorJoint PS-30 XS System: | | |
|-------------|-----------------------------------|---|--|
| | Coating | Product | Consumption |
| | Adhesive | Sikadur®-30 or Sikadur®-31 CF Normal | ~1–3 kg/linear meter (depending of the depth of the cut-out) |
| | Floor Panel | Sika® FloorJoint XS | 1 piece per 1.2 linear meter |
| | Top Coat | Sikafloor®-2530 W LP | 2–3 × ~0.25 kg/m ² /lay- er |
| | | Sikafloor-263 SL HC/- 264 HC | 1–2 × 0.25–0.30 kg/m ² |

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 | +10 °C min. / +30 °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®-2530 W LP/-263 SL HC/-264 HC on Sikadur®-30/Sikadur®-31 CF Normal + Sika®-FloorJoint XS allow: <table border="1"> <thead> <tr> <th>Substrate Temperature</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>+10 °C</td> <td>24 hours</td> <td>14 days</td> </tr> <tr> <td>+20 °C</td> <td>12 hours</td> <td>10 days</td> </tr> <tr> <td>+30 °C</td> <td>8 hours</td> <td>7 days</td> </tr> </tbody> </table> | | | Substrate Temperature | Minimum | Maximum | +10 °C | 24 hours | 14 days | +20 °C | 12 hours | 10 days | +30 °C | 8 hours | 7 days | | | | |
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| +30 °C | 8 hours | 7 days | | | | | | | | | | | | | | | | | |
| Applied Product Ready for Use | <table border="1"> <thead> <tr> <th>Temperature</th> <th>Foot Traffic</th> <th>Light Traffic</th> <th>Full cured</th> </tr> </thead> <tbody> <tr> <td>+10 °C</td> <td>72 hours</td> <td>6 days</td> <td>10 days</td> </tr> <tr> <td>+20 °C</td> <td>24 hours</td> <td>4 days</td> <td>7 days</td> </tr> <tr> <td>+30 °C</td> <td>18 hours</td> <td>2 days</td> <td>5 days</td> </tr> </tbody> </table> | | | Temperature | Foot Traffic | Light Traffic | Full cured | +10 °C | 72 hours | 6 days | 10 days | +20 °C | 24 hours | 4 days | 7 days | +30 °C | 18 hours | 2 days | 5 days |
| Temperature | Foot Traffic | Light Traffic | Full cured | | | | | | | | | | | | | | | | |
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| | Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity. | | | | | | | | | | | | | | | | | | |

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 materi-

al must be completely removed from all surfaces before installation of the floor joint panel, preferably by brush and vacuum. Refer to the Method Statement of Sika® FloorJoint XS for detailed description how to prepare the cut-out.

APPLICATION

Refer to the Method Statement of Sika® FloorJoint XS

FURTHER DOCUMENTS

- 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
- Always store Sika® FloorJoint XS panels in horizontal position.
- Never remove the masking tape affixed to the bottom side of the Sika® FloorJoint XS 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 XS if necessary.
- Don't exceed the maximum positive joint movement capacity, otherwise the teeth of the Sika® FloorJoint XS become unsupported and may break.
- Settlement of the substrate or of the adhesive can result in cracks in Sika® FloorJoint XS. 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 because it might reduce the mechanical resistance of the profile. 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 high positive joint movement, however this does not affect the technical performance of Sika® FloorJoint PS-30 XS. 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 XS 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 20 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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