



METHOD STATEMENT

HIGHLY RESISTANT JOINT SEALANTS – SIKAFLEX® PRO-3 WF

SIKA LIMITED (VIETNAM)

BUILDING TRUST



1 SCOPE

Sika® Solutions for Jointing in industrial Floors and containments.

2 ADVANTAGES

- Movement and connection joints in floors
- Indoor & outdoor applications
- In warehouses and production areas
- On surfaces such as in the food industry
- In ceramic tiles such as in public buildings
- Joints in waste water & sewage treatment plants
- Floor joints in tunnel construction.



JOINTING FOR INDUSTRIAL AND COMMERCIAL FLOORS

The sealing of floor joints in trafficked areas of industrial, commercial and public buildings requires reliable sealants to resist chemical and mechanical wear, by both pedestrians and vehicles. In the event of mechanical damage to the sealant surface, a particularly high tear resistance is required to prevent complete failure.

This is also vital for the sealant's exposure to the rotating brushes of floor cleaning machines.

JOINTING FOR SEWAGE TREATMENT PLANTS

The successful sealing of joints in sewerage systems requires specially formulated sealants with the maximum resistance to chemicals, microorganisms, mechanical abrasion and pressure, particularly water pressure, and to plant root penetration. The movement of joints is not only caused by temperature fluctuation, but also by load variation, vibration, settlement and creep. Water pressure on the sealants can also cause permanent deformation. This can be prevented, either by mechanical support of the sealant, in the joint behind the backing rod; or by the use of a relatively hard sealant, necessitating wider joints due to the reduced permissible movement.

Sikaflex® PRO-3 WF provides more permanently sealed joints due to its reduced sensitivity to tear.

For both pedestrian and vehicular traffic, internally or externally, Sikaflex® PRO-3 WF is a much better alternative to conventional sealants.

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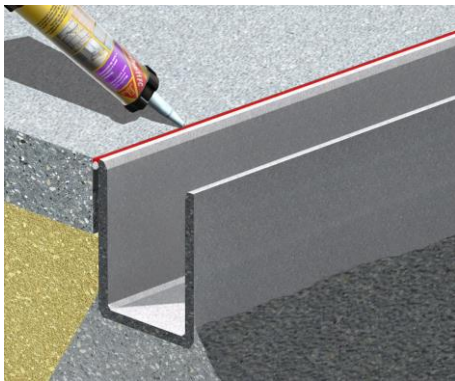
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Sikaflex® PRO-3 WF is also the ideal sealant for many other floor joint sealing:

- On concrete floors and decks
- Manufacturing facilities
- Parking areas
- Shopping malls
- Hotel lobbies
- Airports, exhibition halls
- Residential and office buildings

Sikaflex® PRO-3 WF has the additional advantage that it is easy to repair where necessary in these situations

- Resistant to water, seawater, diluted alkalis, cement grout and water dispersed detergents.
- Not resistant to alcohols, organic acids, concentrated alkalis and concentrated acids, chlorinated, aromatic (hydro-carbons) fuel.



3 MATERIAL

Sikaflex® PRO-3 WF is a moisture curing 1-part elastic sealant based on polyurethane with high mechanical resistance. For indoor and outdoor applications.

4 SUBSTRATE

Clean and dry, homogeneous, free from oils and grease, dust and loose or friable particles. Cement laitance must be removed.

5 APPLICATION

Sikaflex® PRO-3 WF is supplied ready to use.

After suitable joint and substrate preparation, insert a Backing Rod to required depth and apply primer if necessary.

Insert the cartridge/sausage into sealant gun and firmly extrude **Sikaflex PRO-3 WF** into joint making sure that it is full contact with the side of the joint.

Fill the joint, avoiding air entrapment. **Sikaflex PRO-3 WF** must be tooled firmly against joint sides to ensure good adhesion.

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Masking tape must be used where sharp exact joint lines or exceptionally neat lines are required. Remove the tape whilst the sealant is still soft.

Sleek joint with smoothing liquid for a perfect sealant surface.

6 CONSUMPTION / JOINT DESIGN

Joints < 10 mm are normally designed for crack control and therefore they are not movement / expansion joints. The joint width to depth ratio is important at the time of the application of the sealant (guide value of +10°C).

All joints must be properly designed and dimensioned by the specifier and the main contractor in accordance with the relevant standards, because changes are not usually feasible after construction. The basis for calculation of the necessary joint width are the technical values of the joint sealant and the adjacent building materials, plus the exposure of the building, its method of construction and its dimensions.

Joint width	10 mm	15 mm	20 mm	25 mm	30 mm
Joint depth	10 mm	12 – 15 mm	17 mm	20 mm	25 mm
Joint length/ 600 ml	~ 6 m	~ 2.5 – 3.0 m	~ 1.8 m	~ 1.2 m	~ 0.8 m
Joint length/ 300 ml	~ 3m	~ 1.5 m	~ 0.9 m	~ 0.6 m	~ 0.4 m

Backing: Use only closed cell, polyethylene foam backing rods.

7 LEGAL NOTE

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 products 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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