

Highly resistant Joint Sealants

Application field / stress / requirements	Sikaflex® PRO-3 WF 1 part non sagging PU-sealant	Sikaflex®-Tank 1 part non sagging PU-sealant	Sikadur®-Combiflex®-System 2 comp. EP-Adhesive with Sikadur® Combiflex® stripe
Movement and connection joints with pedestrian and trolley load e.g. warehouses shopping areas	X		—
Movement and connection joints with traffic load e.g. park decks	X	X	—
Temporary Oil resistance	X	X	X
use in areas with high pressure cleaning	X	X	
Use in foodstuff industry	X	No approval	—
Use in sewage treatment plants Waste water tubes and (residential waste water)	X	No approval	X
Containment bunds, filling stations:	No approval	x	—
Temporary Fuel and solvent resistant (consult TDS prior application)	No approval	X	—
Crack sealing	—	—	X

Also available from Sika



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Sika® Solutions for Jointing in industrial Floors and Containments



BU Contractors / Sealing & Bonding / E / 10.07 /ar



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.

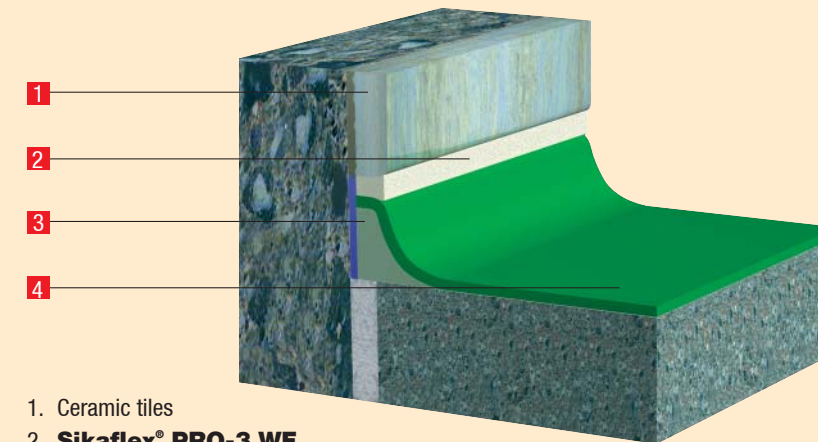
Sikaflex® PRO-3 WF provides more permanently sealed joints due to its reduced sensitivity to tear. For both pedestrian and vehicular traffic, internally or externally, **Sikaflex® PRO-3 WF** is a much better alternative to conventional sealants.

Sikaflex® PRO-3 WF is also the ideal sealant for many other floor joint sealing requirements on concrete floors and decks. This is particularly true for manufacturing facilities, but it is also extremely suitable for parking areas, shopping malls, hotel lobbies, airports, exhibition halls, and in residential and office buildings.

It is now an accepted fact that all floor joints need regular inspection and maintenance. **Sikaflex® PRO-3 WF** has the additional advantage that it is easy to repair where necessary in these situations.

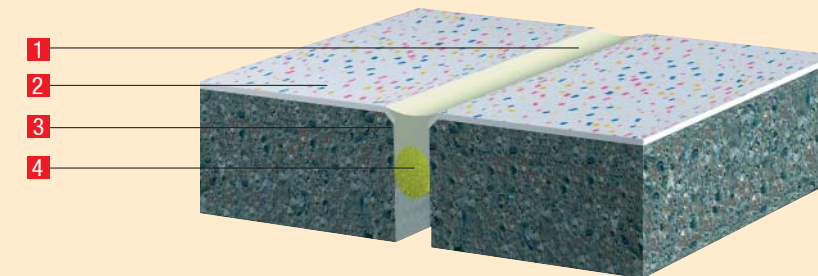


Floor/Wall Isolation Joints



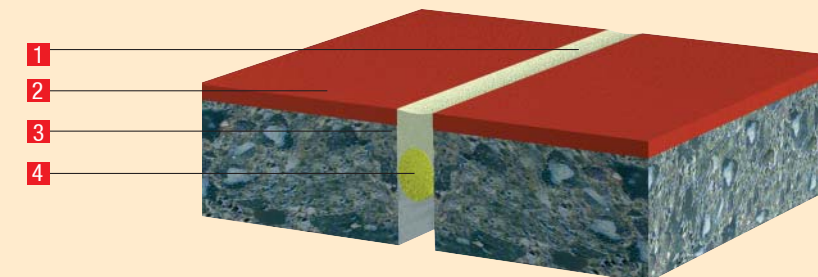
1. Ceramic tiles
2. **Sikaflex® PRO-3 WF**
3. **Sikadur®-31**
4. **Sikafloor®-261**

General Floor Joints (Pedestrian Traffic)



1. **Sikaflex® PRO-3 WF**
2. **Sikafloor®-300 N** with **Sikafloor®-Colourchips**
3. **Sika® Primer-3 N**
4. **Sika®-Sealant Backer PE**

Broadcast Resin System Floor Joints



1. **Sikaflex® PRO-3 WF** (broadcast with quartzsand)
2. Natural stone tiles
3. **Sika® Primer-3 N**
4. **Sika®-Sealant Backer PE**

Tested and proven Security

Sikaflex® PRO-3 WF fulfills the requirements for floor joints in accordance with relevant international guidelines and standards.

Sikaflex® PRO-3 WF complies with the guidelines of the German Ministry of Health for sealing floor joints in the food and beverage industries (certificate of conformity by ISEGA, Aschaffenburg).

Sikaflex® PRO-3 WF has been tested to be fully compatible with **Sikafloor®** coating systems.

Advantages of **Sikaflex® PRO-3 WF** for floor joints

- Fulfills the German guidelines for floor joint sealants
- Ideal for damp substrates in floor joints in combination with **Sika® Primer-3 N**
- High mechanical resistance
- Resistant to floor cleaning machine brushes
- Excellent tear resistance
- Movement capability 25 %
- Resistant against most cleaning agents
- Compatible with **Sikafloor®**
- Can be broadcast with sand when required
- Bubble-free curing
- Easy to apply

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.

For the connection of sewer pipes, **Sikaflex® PRO-3 WF** is much more suitable and cost-effective than conventional 2-pack sealants. Potential mixing deficiencies are also prevented.

Sika provides a complete package of ideal solutions for the water industry including **Sikaflex® PRO-3 WF**, **Sikadur®-Combiflex®-System** and Sika concrete repair systems, **Sikafloor®** floor and containment bund systems as well as **Sikagard®** protective and anticorrosion coatings.

To seal external joints on submerged structures against groundwater ingress, use the **Sikadur®-Combiflex®-System**. Incorrectly dimensioned joints are also easily sealed with the **Sikadur®-Combiflex®-System**. This system is also used extensively for the refurbishment of existing structures, without the need to remove the old deteriorated joint sealants – not even difficult bituminous ones.

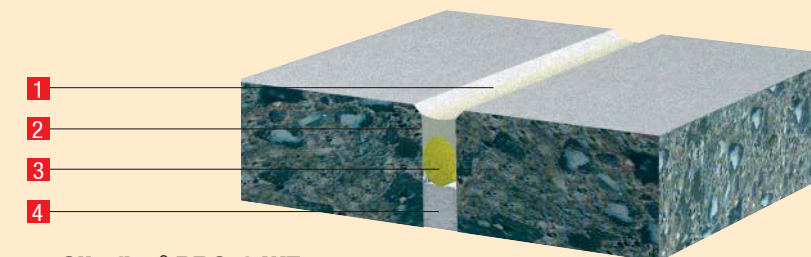


Tested and proven Security

Sikaflex® PRO-3 WF meets the requirements for joints in sewage treatment plants as defined in "Construction and testing principles for sealants in sewer systems" by DIBT, Berlin, which is now mandatory in Germany.

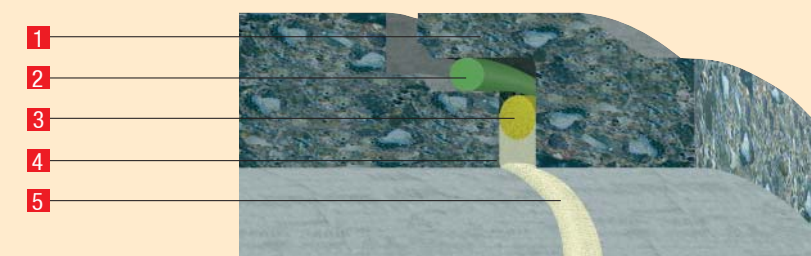
Sikaflex® PRO-3 WF has also been tested by SKZ, Würzburg, and fulfills the requirements for the resistance of hydrostatic pressure up to 3 bar (43.5 psi) without seepage (no leaks).

Floor Joints sealed with Sikaflex® PRO-3 WF



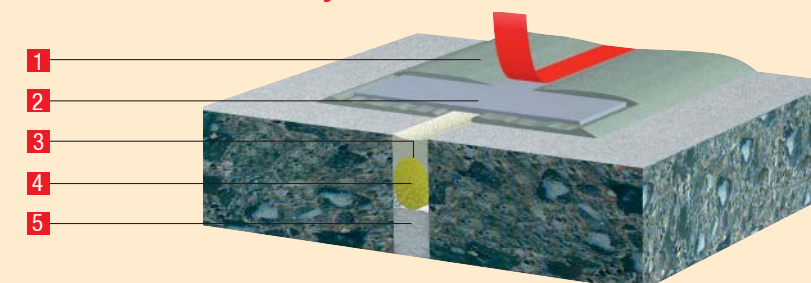
1. **Sikaflex® PRO-3 WF**
2. **Sika® Primer-3 N**
3. **Sika®-Sealant Backer PE**
4. Supporting filler

Joints for Sewer Pipe Connections sealed with Sikaflex® PRO-3 WF



1. External flange
2. Rubber gasket
3. **Sika®-Sealant Backer PE**
4. **Sika® Primer-3 N**
5. **Sikaflex® PRO-3 WF**

Watertight Structures sealed with the Sikadur®-Combiflex®-System



1. **Sikadur®-Combiflex®-Adhesive**
2. **Sikadur®-Combiflex®-Strips**
3. **Sikaflex® PRO-3 WF**
4. **Sika®-Sealant Backer PE**
5. Supporting filler

Advantages of **Sikaflex® PRO-3 WF** for sewage treatment plants

- Easy access for good surface preparation
- Ideal for joint repairs
- Resistant to microbiological and chemical attack
- Resistant to root penetration
- Movement capability 25 %
- Extended durability for joints permanently immersed in water

Advantages of **Sikadur®-Combiflex®** for sewage treatment plants

- Tested as per DIBt construction and by SKZ against hydrostatic pressure
- Resistant to microbiological attack
- Resistant to many chemicals
- Resistant to root penetration
- Accommodates excessive joint movement
- Mechanically resistant
- Suitable for damp substrates in combination with **Sika® Primer-3 N**

Jointing for Containment Bunds



Ground water protection regulations apply for the manufacture, storage, filling and treatment of liquids classified as potential pollutants. These installations have to be sealed efficiently to prevent seepage of these liquids into the ground.

As civil engineering structures, their construction joints necessitate reliable, impervious sealants to ensure continuous watertightness.

■ **Sikaflex®-Tank**, in combination with the Sika groundwater protection systems, provides an efficient and effective seal.

■ **Sikadur®-Combiflex®-System** provides watertight sealing for joints which are permanently immersed, in addition to effectively sealing cracks, movement joints and joints with excessive movement.



Ü-mark for **Sikaflex®-Tank** signifies external quality surveillance by the SKZ Testing Institute in Würzburg



Sika Vehicle Traffic resistant Sealing System with Watertight Concrete



1. **Sikaflex®-Tank**
2. **Sika® Primer-3 N**
3. **Sika®-Sealant Backer PE**

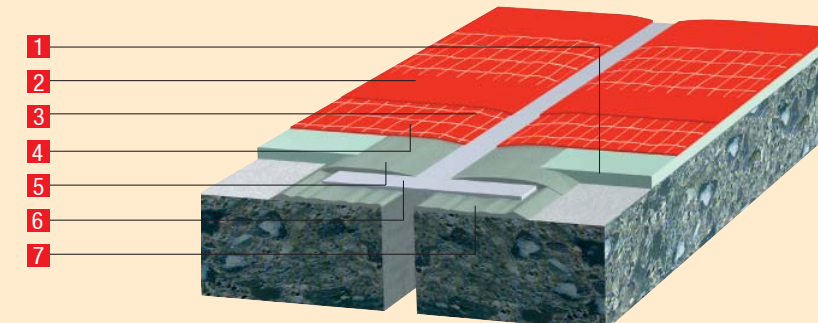
Tested and proven Security

Sikaflex®-Tank is an approved joint sealing system for use in facilities for the storage, filling and transshipment of water-polluting liquids, such as petrol stations, oil storage and IN structures for the prevention of water pollution. The approval certificate with the list of tested liquids is available on request. The approval document specifies the use of non-coated watertight concrete components. The **Sikaflex®-Tank** system has also been tested and approved in combination with the **Sikafloor® Groundwater Protection Systems**.

Advantages of **Sikaflex®-Tank**

- 1-pack, i.e. no mixing, less waste, less cleaning
- Resistant to chemicals
- Approval number Z-76.6-6 from the Deutsches Institut für Bautechnik DIBt (German Institute for Structural Engineering)
- Very high mechanical wear resistance
- Compatible with **Sikafloor® Groundwater Protection Systems**
- Suitable for damp substrates in combination with **Sika® Primer-3 N**

Sika Sealing Solution for GWP and Movement Joints in Containment Bund Areas



1. **Sikagard®-720 EpoCem®**
2. **Sikagard®-62 N**
3. **Sika® Glass FibreMesh**
4. **Sikagard®-62 N**
5. **Sikadur®-Combiflex®-Adhesive**
6. **Sikadur®-Combiflex®-Strip**
7. **Sikadur®-Combiflex®-Adhesive**

The **Sikadur®-Combiflex®-System** fulfills the requirements of the Swiss regulations for containment bunds.

Advantages of the **Sikadur®-Combiflex®-System**

- Very large joint movement capability
- High security (no possibility of water filtration around the joint)
- Compatibility with **Sikagard®** and **Sikafloor®** systems
- Extended durability with minimal maintenance