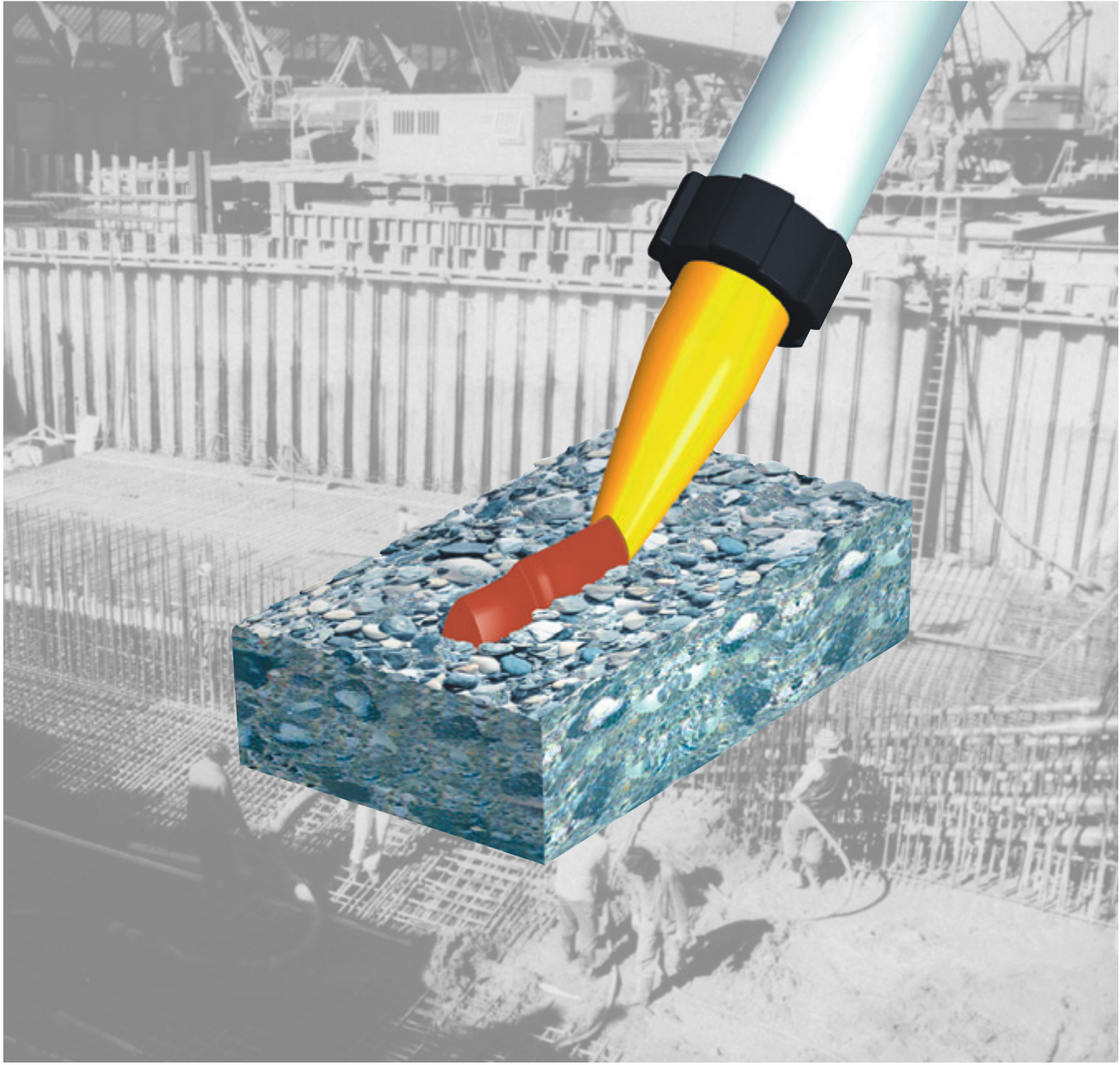


Construction



SikaSwel[®] S-2 Sealant

Water swellable Sealant for
Construction Joints and Penetrations

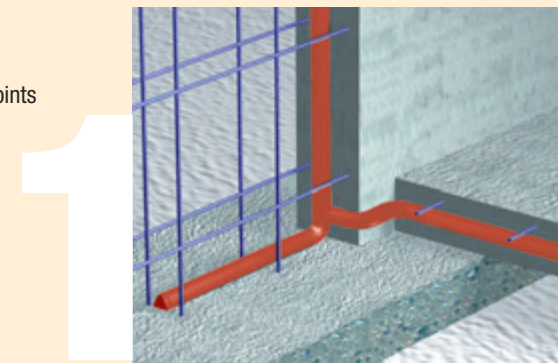


SikaSwell® S-2 Sealant

The New Sika Solution for Watertight Construction Joints

Sealing of Daywork Joints

- No mechanical fixing required
- No jointing required
- No mechanical protection required
- Suitable for vertical and horizontal joints
- Not suitable for expansion joints



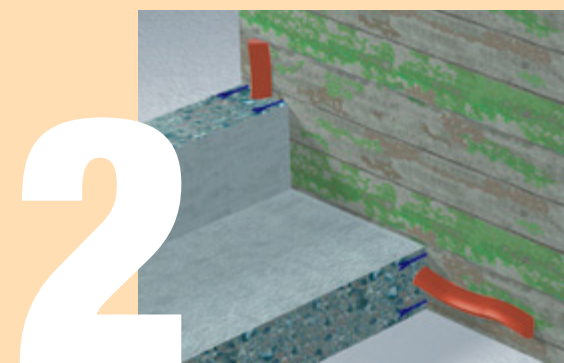
Bonding of SikaSwell® Profiles and Sika® Injectoflex Hoses

- Allows complete upward expansion for preformed profiles
- Complete undersealing
- Excellent bonding
- Especially for irregular and rough surfaces



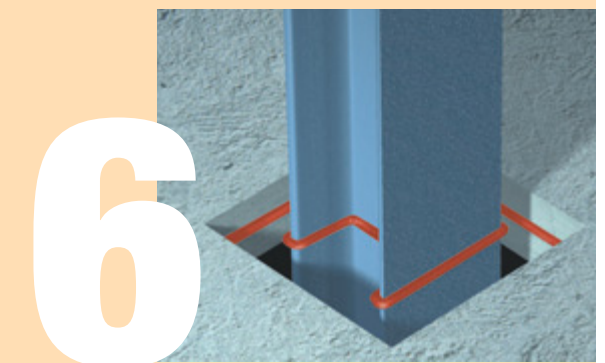
Connecting new to existing Construction

- No influence on finished external appearance
- Simple preparation of existing concrete surface; clean from dust, oil, cement laitance



Between different Construction Materials

- Excellent adhesion on many common materials
- Easy to use



Sealing of PVC Waterbar Overlaps

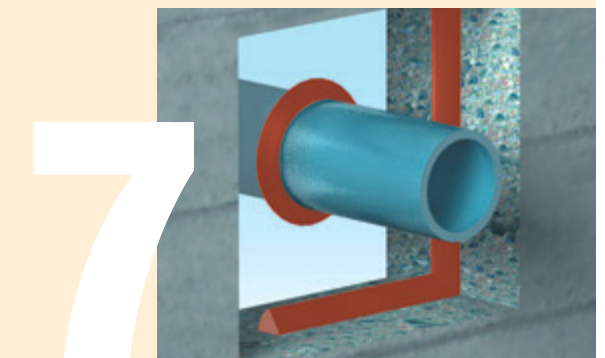
- For sealing PVC waterbar overlaps

Note
For construction joints with integrally placed waterbars only!



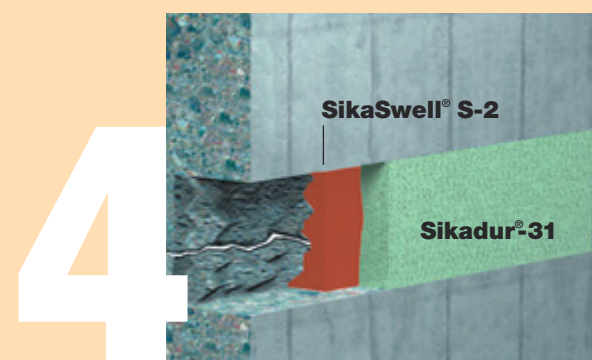
Sealing of Pipe Entries

- Application before final concreting and pipe placing
- Good adhesion to steel and plastic pipes
- Resistant to aggressive influences



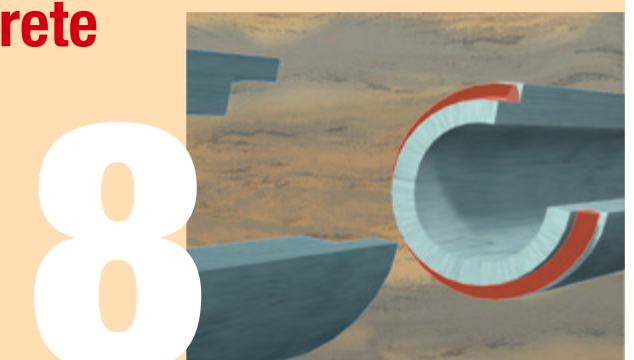
Sealing of Cracks

- Excellent sealing properties
- Non-visible on external surfaces
- Little preparation/breakout
- Quick solution
- Works in mat moist conditions



Sealing of Precast Concrete Pipes and Culverts

- Tailored dimension of sealant between surfaces
- Accommodates some differential movement between segments



Swells in Contact with Water **Easy and simple Application** Extrudable Sealant for Construction Details

SikaSwell[®] S-2 Sealant

Technical Data

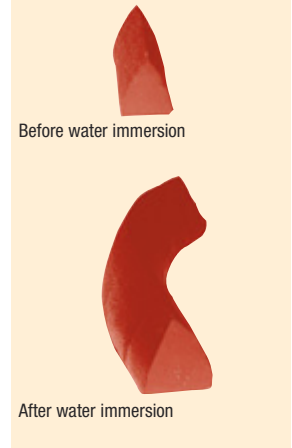
General

Colour	oxide red
Skinning time (+23 °C, 50 % rh)	2–3 hrs
Curing rate (+23 °C, 50 % rh)	
1 day	2 mm
10 days	10 mm
Shore A hardness	
Swollen (7 days water)	> 10
Non swollen (7 days +23 °C, 50 % rh)	40–60
Swelling capacity	
1 day in water	< 25 %
7 days in water	> 100 %
Application temperature	+5 °C to +35 °C

Application Equipment



Function



Consumption

By cutting the nozzle at different lengths, different profile sections can be obtained.

Nozzle size (mm)	Section (mm ²)	Theoretical length* (m)
15 × 15 × 15	98	6.1
20 × 20 × 20	173	3.5

Consumption should be calculated allowing a reduction of the theoretical length with regard to extrusion irregularities and the roughness of the joint surface.

*Length that can be applied for each 600cc unipac.

SikaSwell[®] S-2

The size of the triangle of **SikaSwell[®] S-2** depends on the thickness of the concrete section.

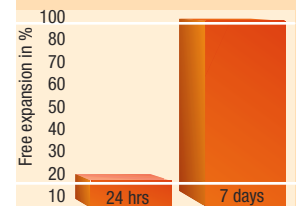
Concrete thickness (cm)	Size of triangular sealant section (mm)
< 30	15
30–50	20

Note

Larger or smaller sections of **SikaSwell[®] S-2** can be used depending on jobsite conditions (roughness of the surfaces, size of aggregates etc.).

Expansion Rate

Free expansion is greater than 100 % after 7 days immersion in water



For additional information see Product Data Sheet SikaSwell S-2.

Limitations

For critical applications with high water pressure, the overall construction details must be correct and in accordance with standards to achieve watertightness. Although **SikaSwell[®] S-2** has been tested to water pressures up to 5 bar, it is not recommended for water pressures higher than 2 bar because of the limited sealing distance. For pressures > 2 bar, it can be used to fix **Sika[®] Injectoflex** hoses or as an accompanying measure for **Sika[®] Waterbars** or the **Sikadur[®] Combiflex[®] System**.

Our most current General Sales Conditions shall apply. Please consult the Product Data Sheet prior to any use and processing.

Your local Sika Company

Sika Services AG

Corporate Construction
CH-8048 Zürich
Switzerland
Phone +41 1 436 40 40
Fax +41 1 436 46 86
www.sika-construction.com

