Sika® Injectoflex® System (Type HP)

Re-Injectable Construction Joint Sealing System

Technical Data Sheet

DESCRIPTION

Sika Injectoflex System (type HP) is an expanding, re-injectable hose for producing watertight construction joints.

USES

Providing watertight joints for:

* Grade 2, 3 and 4 basements (BS 8102).
* Underground construction.
* Water retaining structures.

ADVANTAGES

* Effective waterproofing in 2 phases at different times:
  i) By swelling when water enters
  ii) By subsequent injection
* More tolerant to misalignment than traditional waterbars.
* Installation quicker and easier than traditional waterbars.
* Can be injected locally to seal joint.
* Easily attached to vertical, horizontal and inclined surfaces.
* Can be easily cut to length.
* Provides a maintainable joint.
* Injectable at anytime after construction allowing for future building movement and settlement.
* Allows continuous overlapped jointing.
* Construction joints can be tested for watertightness after installation.
* Non specialist installation of system components.

Technical Data (typical)

System Components:

Sika Injectoflex hose (Type HP):

- Triangular profile of non swelling black neoprene
- 3 red external hydrophilic swelling strips
- 3 yellow compressible foam rubber injection sealing strips

Sika Injectoflex Fixing Clips (Type HP):

Plastic fixing clips for securing **Sika Injectoflex** hose to substrate.

Sika Injectoflex Packer Sleeves (Type HP):

Coloured green/red and fixed to transparent connecting pipes and reinforcement fixing bracket.

90° Corner connectors:

For connecting hose at 45° mitre cut corners.

SikaSwell® S-2

One component hydrophilic sealant as an alternative for securing **Sika Injectoflex** hose to concrete.

Also refer to Schedule of Contents.

HOW THE SYSTEM WORKS

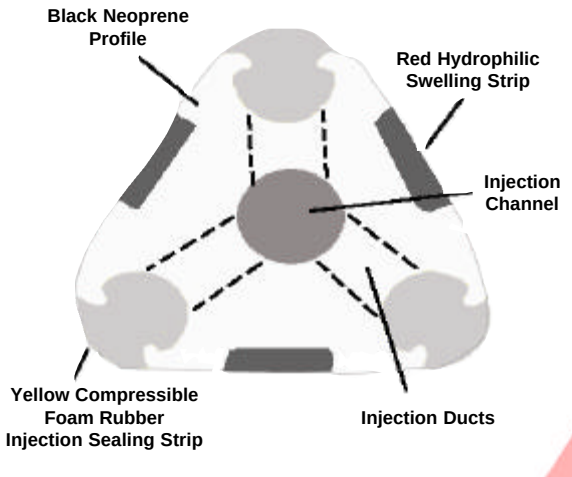
The **Sika Injectoflex System** (Type HP) is cast into the construction joint.

When water enters in a 'first phase', the three external hydrophilic swelling strips expand sealing the water path.

If necessary, in a 'second phase', the system can be injected with synthetic leak sealing resins or micro-cements which penetrate capillaries and fill large voids, ensuring a watertight joint.

The **Sika Injectoflex** hose injection channel and ducts can be flushed clean to allow re-injection of resins in the event of future movement or cracking of the joint.

Sika Injectoflex hose type HP profile



KEY

1 Fixing Clip

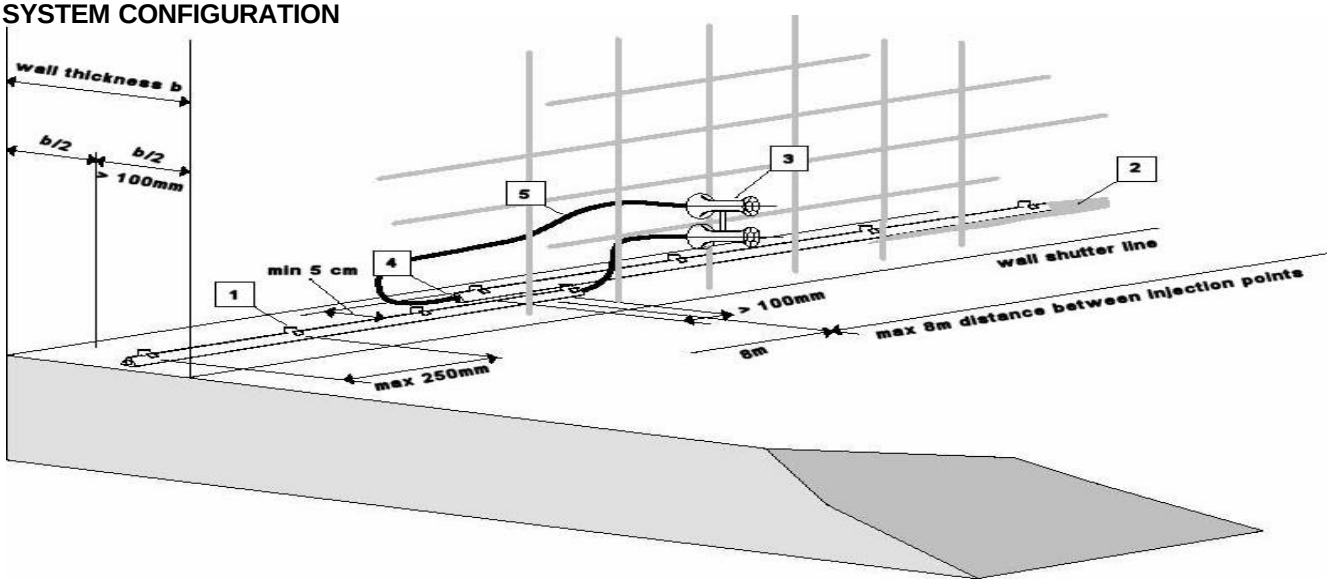
2 **SikaSwell S-2** adhesive

3 Reinforcement Bracket and coloured Injection/ Vent Packer Sleeves

4 Straight Connector inserted into **Sika Injectoflex Hose**

5 Transparent Connecting Pipe

SYSTEM CONFIGURATION



INSTALLATION

Refer to Installation Guide.

INJECTION MATERIALS

Concrete to be injected should be at least 4 weeks old. All injection work should be carried out by a specialist injection contractor.

Sika® Injection 29 - three component hydrophilic acrylic based resin for the permanent sealing of cracks against water infiltration. Product can be flushed from hose and reinjected.

PACKAGING

Refer to Schedule of Contents.

STORAGE AND SHELF LIFE

Indefinitely in original packaging and in dry conditions.

Handling Precautions
Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

Important 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 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

Please consult our Technical Sales Department for further information

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