

## PRODUCT DATA SHEET

# Hydrotite SST Profiles

### HYDROPHILIC STRIP FOR SEALING CONSTRUCTION JOINTS IN CONCRETE STRUCTURES

#### DESCRIPTION

Hydrotite SST Profiles is a hydrophilic rubber sealing strip used to seal construction joints in concrete structures. It contains a self-adhesive tape for ease of application.

#### USES

- Sealing of site formed construction joints of concrete structures.
- Can also be used in combination with conventional waterbars as a second line of defence directly on concrete or adhered to the waterbars itself.
- Note: Sika® Hydrotite SST-0310 is not a sealing material for expansion joints and should not be used as such

#### CHARACTERISTICS / ADVANTAGES

- Hydrotite SST Profiles swells when it absorbs water and fills up concrete joint gaps conforming to the gap variations and thus ensuring excellent sealing.
- Hydrotite SST Profiles with its small dimensions is free from flanges and ribs which could trap air and have an adverse effect on placement
- Hydrotite SST Profiles is easy to handle as it is light weight
- Hydrotite SST Profiles is treated with an expansion delay coating to preserve it from the influence of water from freshly poured concrete and prevent expansion taking place before curing of concrete.

#### PRODUCT INFORMATION

<b>Composition</b>	Hydrophilic portion: Chloroprene rubber, hydrophilic resin Adhesive portion: Pressure sensitive adhesive
<b>Packaging</b>	5 x 20 meter rolls per box Box size: 34 cm x 34 cm x 13 cm
<b>Shelf life</b>	48 months from date of production when stored in unopened, undamaged and sealed original packaging
<b>Storage conditions</b>	Store in dry conditions at temperatures between +5 °C and +35 °C. Keep away from water, heat, flame and sunlight and UV.
<b>Dimensions</b>	H : 3 mm W : 10 mm

#### TECHNICAL INFORMATION

<b>Shore A Hardness</b>	Hydrophilic Rubber Standard : 45 ± 5	Result : 44	(JIS K 6253)
<b>Tensile Strength</b>	Hydrophilic Rubber Standard : min. 3.9 Mpa	Result : ~4.8 Mpa	(JIS K 6251)

<b>Elongation</b>	Hydrophilic Rubber Standard : min. 600%	Result : ~680%	(JIS K 6251)
<b>Change of Volume</b>	Volume Expansion (%)	Standard : min. 200 Result : ~320	(In house test)

## SYSTEMS

<b>Compatibility</b>	The length of Hydrotite SST Profiles should be joined by butt jointing. For better results as there are holes at the section of Hydrotite SST Profiles, joints could be bonded with SikaSwell®-S2 to prevent water ingress .
----------------------	--

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

For best results, Hydrotite SST Profiles should be applied to even surfaces to ensure good bonding. It is recommended that a minimum of 100 mm concrete cover be allowed on both sides of the Hydrotite SST Profiles position. Any variation in this allowance shall depend on the concrete strength and reinforcement used. In such instances, it is possible to reduce this cover to 50 mm.

Hydrotite SST Profiles can be applied on to plain surfaces of the concrete directly or in a formed groove. When the surface of the first concrete pour is irregular or uneven (it should be made completely flat using a piece of timber before the concrete cures) or levelled with adhesive such as Sikadur®-31.

### APPLICATION METHOD / TOOLS

#### Bonding

Remove dust, oil, etc. from the surface where Hydrotite SST Profiles is to be applied.

#### On Smooth and Dry concrete surfaces:

- Use the pressure sensitive self-adhesive on the back of the strip directly on concrete (or Waterbar).
- Align Hydrotite SST Profiles strip and press down firmly to ensure overall contact.

#### On Irregular / or Damp concrete surfaces:

- Use Sikadur®-31, a two-component moisture tolerant epoxy mortar as repair material.
- After mixing the two component the epoxy mortar correctly, apply it on to the rough surface to obtain a smooth surface finish.
- Apply Hydrotite SST Profiles on cured Sikadur®-31.

#### Joints

The length of Hydrotite SST Profiles should be joined by butt jointing. For better results as there are holes at the section of Hydrotite SST Profiles, joints could be bonded with SikaSwell®-S2 to prevent water ingress.

## IMPORTANT CONSIDERATIONS

- In order to avoid concrete cracking which may be caused by the expansion pressure of Hydrotite SST Profiles, a minimum of 100 mm concrete cover measured from the bonded position of Hydrotite SST Profiles to each side and the use of steel reinforcement is recommended.
- Use Hydrotite SST Profiles only for site formed concrete joints in underground structures where constant damp and/or wet conditions are expected.
- Before applying to the joints, do not expose Hydrotite SST Profiles to any water, rain, etc. After application, adequate measures should be taken to prevent its exposure to rain water, groundwater, etc. before the joint is covered with fresh concrete.

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

## 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.

**PT. Sika Indonesia Head Office and  
Manufacturing**

Jl. Raya Cibinong-Bekasi Km.20  
Limusunggal-Cileungsi  
Bogor 16820-Indonesia  
Tel. +62 21 8230025, Fax +62 21  
8230026



**Product Data Sheet**  
**Hydrotite SST Profiles**  
March 2020, Version 01.01  
020703300200000012

HydrotiteSSTProfiles-en-ID-(03-2020)-1-1.pdf

