

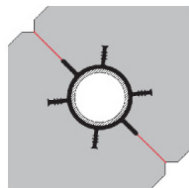
# PRODUCT DATA SHEET

## Sika® Crack Inducer Tube SR for shrinkage joints

Sika Crack Inducer Tube SR - Waterproofing for Shrinkage Joints

### PRODUCT DESCRIPTION

Sika crack inducer Tube SR is a sealing profile made of PVC-P NB thermoplastic material, non-bitumen-compatible, for sealing and sectional weakening for contraction joints/control joints, with inner pipe for longitudinal bracing.



### DESIGNATION

Sika Crack Inducer Tube SR

### PRODUCT CHARACTERISTICS

- High mechanical resistance
- Resistant to naturally occurring substances that attack concrete
- Resistant to a wide range of chemical agents (test necessary in individual cases)
- Robust cross-section for handling at the construction site
- Simple installation
- Weldable
- Can be combined with construction-waterbars for base/wall section, e.g. types SFA, FIX and KAB

### PRINCIPLES OF USE

- Planning and processing principles according to general appraisal certificate (*allgemeines bauaufsichtliches Prüfzeugnis, abP*)
- Joining technology according to DIN V 18197

### USES

- Sealing and sectional weakening for contraction/control joints in the area of walls of structures made of water-impermeable concrete
- Example applications:  
residential buildings  
administrative buildings, underground garages

|                               |  |
|-------------------------------|--|
| <b>STANDARDS / GUIDELINES</b> | <ul style="list-style-type: none"> <li>- General appraisal certificate</li> <li>- "WU" guidelines for watertight concrete structures of the German Committee for Reinforced Concrete (DAfStb)</li> <li>- Welding instructions</li> <li>- SG 320 L welding device operator's manual</li> <li>- Processing instructions</li> </ul> |
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|                          |  |
|--------------------------|--|
| <b>TESTS / APPROVALS</b> | <ul style="list-style-type: none"> <li>- Certificate of compliance; other test certificates according to agreement</li> <li>- "ÜH" manufacturer's declaration of compliance</li> </ul> |
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## PRODUCT DATA

|                 |   |
|-----------------|---|
| <b>MATERIAL</b> | PVC-P NB thermoplastic (non-bitumen-compatible) |
|-----------------|---|

|               |       |
|---------------|-------|
| <b>COLOUR</b> | Black |
|---------------|-------|

|                      |  |
|----------------------|--|
| <b>DELIVERY FORM</b> | Standard lengths<br>SR 6: 2.75 m<br>SR 9: 2.50 m, 3.0 m, 4.0 m<br>SR 18: 3.0 m, 4.0 m<br>Custom lengths upon request |
|----------------------|--|

|                           |  |
|---------------------------|--|
| <b>STORAGE CONDITIONS</b> | <ul style="list-style-type: none"> <li>- Storage on the pallet or level surface</li> <br/> <li>- For long-term storage (&gt; 6 months) in closed spaces, the storage space should be cool, dry, dust-free and moderately ventilated. The SR Tube should be protected from radiant heat and strong artificial light with a large UV component.</li> <br/> <li>- During short-term storage at construction sites, the SR Tubes outdoors should be protected against direct solar radiation, contamination, harmful effects of other materials or machines and devices, e.g., separated from construction steel and apart from construction access roads and fuel tank equipment, and should be stored dry and on a level surface.</li> </ul> |
|---------------------------|--|

## TECHNICAL INFORMATION

|                         |                |           |
|-------------------------|----------------|-----------|
| <b>SHORE A HARDNESS</b> | 83 ± 5 Shore A | DIN 53505 |
|-------------------------|----------------|-----------|

|                         |       |                  |
|-------------------------|-------|------------------|
| <b>TENSILE STRENGTH</b> | 9 MPa | DIN EN ISO 527-2 |
|-------------------------|-------|------------------|

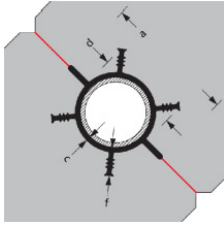
|                              |      |                  |
|------------------------------|------|------------------|
| <b>ELONGATION AT RUPTURE</b> | 200% | DIN EN ISO 527-2 |
|------------------------------|------|------------------|

|                               |        |           |
|-------------------------------|--------|-----------|
| <b>TEAR GROWTH RESISTANCE</b> | 8 N/mm | DIN 53507 |
|-------------------------------|--------|-----------|

|  |      |             |
|--|------|-------------|
| <b>LOW-TEMPERATURE BEHAVIOUR ELONGATION AT BREAK AT -20 °C</b> | 100% | DIN 18541-2 |
|--|------|-------------|

|                       |                            |            |
|-----------------------|----------------------------|------------|
| <b>FIRE BEHAVIOUR</b> | Building material class B2 | DIN 4102-1 |
|-----------------------|----------------------------|------------|

## TYPES



| PVC-P NB<br>Crack Inducer Tube SR<br>type | Total width | Diameter | Thickness | Height of the profile | Water pressure   | Component thickness<br>Concrete section |
|---|-------------|----------|-----------|-----------------------|------------------|---|
|   | a           | d        | c         | f                     | p                | d                                       |
|   | [mm]        | [mm]     | [mm]      | [mm]                  | [bar]            | [mm]                                    |
| SR 6                                      | 110         | 64       | 4         | 21                    | 2.0 <sup>1</sup> | 150 - 250                               |
| SR 9                                      | 138         | 88       | 4         | 30                    | 2.0 <sup>1</sup> | 200 - 350                               |
| SR 18                                     | 235         | 175      | 5         | 35                    | 2.0 <sup>1</sup> | 350 - 600                               |

<sup>1</sup> according to general appraisal certificate

## SYSTEM DATA

### GENERAL

The Crack Inducer Tubes are produced in standard lengths and cut to the necessary length on site, or in custom lengths according to the dimensions ordered. Therefore, no welded joints need to be made at the construction site.

The SR Tubes for the controlled crack joints in wall areas are used with construction expansion tapes in base/wall construction joints of type FIX, type SFA or type KAB, or also in combination with joint sheets.

### DOCUMENTATION

- Certificate of compliance; other test certificates according to arrangement
- "ÜH" manufacturer's declaration of compliance
- System drawings of the subsystems with the system sizes given

### HANDLING

- According to general appraisal certificate and the processing guidelines
- Proper storage on level surface
  - Careful transport at the construction site
  - Laying work only when material temperature of expansion tape is  $\geq 0$  °C
  - Check for possible damage
  - Install and secure in planned position; 2 cm distance from reinforcement
  - Protect until completely embedded in concrete

### INSTALLATION

For installation, the SR Tubes are cut in at the bottom, transverse to the crack guide ridges, to the point where their distance from the upper edge of the base is 5 cm when they are placed on the expansion tape of the base/wall joint.

They are cut on site to a length corresponding to the wall height.

With KAB 125/KAB 150 construction expansion tape in the base/wall construction joint, the laying brackets are placed at the locations of the controlled crack joints at a distance of 30 cm.

The SR Tubes are secured with cleats on the upper edge and intermediate mountings on the reinforcement with expansion tape clips and binding wire.

#### Concreting

Installation of a 0/16 flow mix with careful concreting for embedding the footings without problems.

Pour concrete evenly on both sides of the shrinkage pipe.

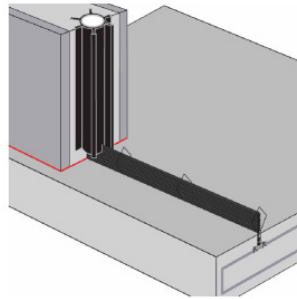
The SR Tubes are filled with concrete. The bracing pipe does not need to be stretched.

Embed shrinkage pipe in the concrete, fully enclosed and without cavities.

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**MOULDED PARTS/SYSTEMS**

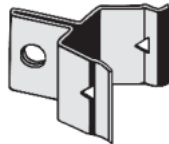
Example:



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**ACCESSORIES**

waterbar clips for securing the stop anchors if necessary.



Größe 1

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**IMPORTANT  
INFORMATION**

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**HEALTH & SAFETY**

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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**VALUE BASE**

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

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**LEGAL NOTES**

This information and, in particular, the suggestions relating to the application and end-use of our products, are based on our knowledge and experience in normal use, providing the products have been properly stored and applied. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of results achieved or liability arising out of any legal relationship whatsoever, can be inferred either from this information or from any advice offered by spoken word, unless we have been deliberately at fault or guilty of gross negligence. The user shall be required to prove that he has duly and in full extent submitted to Sika in writing all information necessary for Sika to make a fair and proper assessment. The user must test the products' suitability for the intended application and purpose. Sika reserves the right to change the product specifications. The proprietary rights of third parties must be observed. Orders are accepted subject to our current terms and conditions of sale and delivery. The most recent edition of the Product Data Sheet shall apply, copies of which should be requested from us.

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Product Data Sheet  
Sika Schwindrohr SR Thermoplast PVC-P NB  
Edition: 10.12.2015  
Identification no.: E4011