PRODUCT DATA SHEET

Tricoflex® Membrane Sealing Strip

Flexible, elastomeric membrane based, waterproof sealing strip component of the Tricoflex® Membrane Joint Sealing System

PRODUCT DESCRIPTION

Flexible, thermoplastic elastomer based, membrane sealing strip component of the bonded and overbanding Tricoflex® Membrane Joint Sealing System.

USES

The Tricoflex® Membrane Sealing Strip is securely bonded to the substrate with Tricoflex FU60 Epoxy Adhesive for the waterproof sealing of:

- Expansion and construction joints in both in-situ and precast concrete construction
- Cracks or leaking joints
- Around or along penetrations
- Joints between concrete and steel sections of a structure

CHARACTERISTICS / ADVANTAGES

- Secure and durable bond to the substrate with Tricoflex® FU 60 Epoxy Adhesive
- Highly flexible movement accommodating characteristics
- Homogeneous welded joints in the sealing system
- No primer required
- 1 mm and 2 mm thick membrane strips to suit the waterproofing demands

CERTIFICATION / APPROVALS

- MPA NRW: General Appraisal Certificate – Tricoflex® Membrane Sealing System for Construction joints under hydrostatic pressure
- MPA NRW: General Appraisal Certificate – Tricoflex® Membrane Sealing System for Expansion joints under hydrostatic pressure
PRODUCT DATA

COLOUR
Grey

PACKAGING

<table>
<thead>
<tr>
<th>Width / Thickness</th>
<th>1 mm</th>
<th>2 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 mm</td>
<td>20 m roll</td>
<td>20 m roll</td>
</tr>
<tr>
<td>200 mm</td>
<td>20 m roll</td>
<td>20 m roll</td>
</tr>
<tr>
<td>250 mm</td>
<td>20 m roll</td>
<td>20 m roll</td>
</tr>
</tbody>
</table>

Note: Other sizes are available on request

STORAGE
Rolls must be stored in their original packaging, in a horizontal position and in cool and dry conditions. They must be protected from direct sunlight, rain, snow and ice, etc. Product does not expire if correctly stored.

TECHNICAL DATA

CHEMICAL BASE
Thermoplastic elastomer

WEIGHT PER UNIT AREA
1 mm Sealing Strip 900 g/m²
2 mm Sealing Strip 1800 g/m²

HARDNESS
~ 80 Shore A
ISO 868

TEAR STRENGTH
> 6 N/mm²
DIN 53504

ELONGATION
> 400 %
DIN 53504

TEAR PROPAGATION RESISTANCE
> 600 N/cm
DIN 53363

LOW-TEMPERATURE FLEXIBILITY
No cracks down to – 30°C
SIA 280/3

AGEING RESISTANCE
Compliant
SIA 280/8

BITUMEN COMPATIBILITY
Compliant
DIN 16726/5.19

SYSTEM INFORMATION

PREPARATION AND PLANNING
All the information required for the design and installation of the Tricoflex® Membrane Joint Sealing System is provided in the separate document ‘Tricoflex® Membrane Joint Sealing System Method Statement’ that is available on request.

SUBSTRATE
The substrate must be structurally sound, with a mechanically prepared, cement laitence free, open-textured surface that is clean, and free from any possible contaminants or standing water.
After suitable mechanical preparation (e.g. by blast cleaning) the substrate must have a minimum pull-off strength of 1.2 N/mm².

For effective watertight sealing the rest of the substrate / surface area must also be impermeable to water ingress, otherwise the Tricoflex® Membrane Joint Sealing System must be combined and integrated with a suitable surface sealing solution. (please refer to Sika Technical Services Department for specific advice and suitable solutions for your project)

Before bonding the system on substrates other than concrete, it’s suitability should be confirmed by testing / trial applications.

### INSTALLATION CONDITIONS

The installation conditions required and their limitations are primarily determined by the system adhesive – Tricoflex FU60 Epoxy Adhesive. Detailed information on this is provided on the respective Tricoflex FU60 Epoxy Adhesive Product Data Sheet.

### INSTALLATION INFORMATION

**INSTALLATION METHOD / TOOLS**

Detailed information on the system design and installation is provided in the separate document 'Tricoflex® Membrane Joint Sealing System Method Statement' that is available on request.

**Welds and Welding**

Place the Tricoflex Membrane Sealing Strip on a suitable flat surface.

Form the weld as a lap joint with an overlap of about 3 cm.

Cut the ends of the strip to suit the joint type (butt or corner joint). Prepare and clean the surfaces around the lap areas and roughen using fine to medium grade sandpaper or steel wool pads.

Welding requires the use of a hot air gun with a wide nozzle and a contact pressure roller. The optimum welding temperature depends on the weather conditions (reference values: ca. 320 - 360°C). Check the optimum temperature on site before welding and adjust if necessary.

Position and fit the ends of the membrane strips together and fix them with spot welds on the edge to prevent them slipping during the final welding operations.

In the first operation weld an edge strip about 1 cm wide. To do this, move the wide nozzle of the hot air gun slowly and evenly through the spot welded edge section and immediately following this, press and join the strip ends together fully using the contact roller.

In the final operation weld the remainder of the lap areas as described above.
Application

Using a 4 mm notched trowel, apply an even and continuous adhesive bed of Tricoflex® FU 60 Epoxy Adhesive as a base coat onto a suitable prepared substrate.

Press the length of membrane strip fully into the base coat. The final layer thickness of the base coat is 1-2 mm. Additional temporary mechanical support may be necessary for installation in overhead or vertical areas.

An additional uniform layer of the adhesive is then applied over the membrane strip in the bonding section on either side of the central joint movement area (as required) to prevent it being peeled away from the base coat. The layer thickness of this top / finishing coat is 1 - 2 mm.

The Tricoflex® Membrane Joint Sealing System is suitable for expansion / movement joint sealing, where the unbonded central expansion areas designed to accommodate the anticipated joint movement. Detailed information on the system design and detailing is provided in the separate document 'Tricoflex® Membrane Joint Sealing System Method Statement' that is available on request.

Dependent on the type of installation and loading / traffic situation, an additional support or protection system / build-up may be necessary.

IMPORTANT INFORMATION

ECOLOGY, HEALTH AND SAFETY INFORMATION
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.

VALUE BASE
All technical data stated in the Product Data Sheet are based on laboratory tests. Actual measured data may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

LOCAL RESTRICTIONS
The information in this product data sheet are valid for the delivered Sika Deutschland GmbH product. Please note that as a result of specific local regulations the performance of the product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.
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.