Sika® Anchor-300

Product Description
Sika® Anchor-300 is a hard PVC shell with flange in grey colour and welded with Sikaplan® PVC waterproofing membrane in yellow colour. Temporary fixation of reinforcement bars in the field of tunnels in combination with a waterproofing membrane.

Uses
The Sika® Anchor-300 is used in tunnel construction to fix the reinforcement (temporary fixing) of inner shotcrete lining to the outer shell. The inner lining should preferably be designed as a supporting structure.

Characteristics / Advantages
- Hot air welding with Sikaplan® WP membranes
- Good force transfer over hard PVC tube
- Waterproofing line around anchor (no additional sealing elements required)
- Anchor steel corrosion-protected
- Quick and simple installation

Tests
Wetertightness test
-0.2 MPa by Sika Testing System TM 87 (Vacuum testing)

Product Data
Form

| Appearance | Surface: | smooth |
|Colour | PVC Membrane: | yellow and black |
| | PVC Tube: | grey |

Packing
16 pcs/box

Storage

| Storage Conditions | Stored in dry conditions, protected from direct sunlight, rain, snow and ice, etc. |

Shelf-Life
The product does not expire if correctly stored.
## Technical Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Membrane Thickness</td>
<td>2.0 mm</td>
</tr>
<tr>
<td>Membrane Diameter</td>
<td>300 mm</td>
</tr>
<tr>
<td>Height (PVC Tube)</td>
<td>200 mm</td>
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<tr>
<td>Inside Thread</td>
<td>M16</td>
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</tbody>
</table>

## System Information

### System Structure

Ancillary products:
- Sikaplan® WP 1100 -types
- Sikaplan® WP 1110 -types
- Sikaplan® WP 1120 -types
- Sikaplan® WP 2110 -types
- Sikaplan® WP 2212 -types
- Sikaplan® WP 2230 -types
- Sikaplan® WP 2240 -types
- Sikaplan® F30 -types
- Sikaplan® WP Protection Sheet -Types
- Sikadur® -31

## Application Details

### Substrate Quality

Substrate should be smooth and solid.

### Substrate Preparation

If the substrate is rough, a fine shotcrete (gunite) layer on the substrate with a min. thickness of 50 mm is required and cleaned without loosen aggregates, stones, nails, wires, etc.

If steel existed, such as girders, reinforcement mesh, anchor, etc., a min. 50 mm shotcrete (gunite) layer is a must as a cover.

## Application Conditions / Limitations
Temperatures
+5°C min./ +35°C max.

Pull-out Strength
The pull-out strength of the anchor depends on the substrate condition to detect the pull-out strength values. A pull-out testing under local conditions is required. Use for temporary fixation of reinforcement only.

Installation Instructions

Application Method / Tools
Installation method:
1. Drill a hole into the substrate;
2. Clean the drill hole with high pressure water jet;
3. Clean the drill hole with compressed air;
4. Inject Sikadur®-31;
5. Install Sika® Anchor-300;
6. Welded together with Sikaplan® PVC membrane;
7. Install steel anchor for temporary fixing of rebar cage.

Notes on Application / Limitations
Installation works shall only be carried out by Sika trained contractors, experienced in the lining of tunnels and underground structures.

The Sika® Anchor-300 is not UV stabilized and must not be installed on structures where it is permanently exposed to UV-light and weathering.

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.

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.

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.