

# PRODUCT DATA SHEET

## Sikalastic®-810

### PUR-BASED PRIMER FOR LIQUID APPLIED MEMBRANES

#### DESCRIPTION

Sikalastic®-810 is a two part adhesion promoting primer based on polyurethane resin for several Sikalastic®-systems. Used if the max. waiting time is exceeded.

#### USES

- Adhesion promoting primer
- For liquid applied membranes within the Sikalastic® range.
- Used if the max. waiting time is exceeded.

#### CHARACTERISTICS / ADVANTAGES

- Good adhesion to flexible spray applied membranes and PUR-coatings
- Fast curing
- Low consumption
- Sprayable

#### APPROVALS / STANDARDS

Polymer Institute Dr. Stenner, test report No. P1700, 1999, Bridgedeck Waterproofing on concrete decks according TL/ TL-BEL-B and ZTV-BEL-B, part 3

#### PRODUCT INFORMATION

|                            |   |                           |
|----------------------------|---|---------------------------|
| <b>Chemical Base</b>       | Polyurethane  |                           |
| <b>Packaging</b>           | Part A (Poly):  | 9.0 kg                    |
|                            | Part B (Iso):   | 4.5 kg                    |
|                            | Part A + B:   | 13.5 kg ready to mix unit |
| <b>Appearance / Colour</b> | Part A:   | Yellowish-brownish liquid |
|                            | Part B:   | Dark brown liquid         |
| <b>Shelf Life</b>          | 12 month from date of production  |                           |
| <b>Storage Conditions</b>  | The packaging must be stored properly in original, unopened and undamaged sealed packaging in dry conditions. Protect from direct sunlight. |                           |
| <b>Density</b>             | Part A:   | ~ 1.48 kg/l (+23 °C)      |
|                            | Part B:   | ~ 1.23 kg/l (+23 °C)      |
|                            | Part A + B:   | ~ 1.38 kg/l (+23 °C)      |
| <b>Solid Content</b>       | ~ 99 %  |                           |
| <b>Viscosity</b>           | <b>+20 °C</b>   |                           |
|                            | Part A:   | 6 250 mPas                |
|                            | Part B:   | 125 mPas                  |

## SYSTEM INFORMATION

### Systems

| System on concrete |  |                                 |
|--------------------|--|---------------------------------|
| Coating System     | Product  | Consumption                     |
| Coating:           | Sikalastic® liquid applied membrane <sup>1</sup> .     | 2.                              |
| Primer:            | 1 part Sikalastic®-810<br>+ 0.15 parts Sika® Thinner C | ~ 0.05 - 0.09 kg/m <sup>2</sup> |
| Coating:           | Sikalastic® liquid applied membrane                    | 2.                              |

1. If the max. waiting time is exceeded.
2. Please refer to the product data sheet of the respective coating.

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc.

## APPLICATION INFORMATION

| Mixing Ratio            | Part A : B:   | 2 : 1 (by weight) |      |        |              |        |              |        |              |        |              |  |
|-------------------------|---|-------------------|------|--------|--------------|--------|--------------|--------|--------------|--------|--------------|--|
| Consumption             | 0.05 - 0.09 kg/m <sup>2</sup> , Sikalastic®-810 with 15 % (by weight) Sika® Thinner C   |                   |      |        |              |        |              |        |              |        |              |  |
| Layer Thickness         | ~ 0.05 mm   |                   |      |        |              |        |              |        |              |        |              |  |
| Ambient Air Temperature | Min. +8 °C, max. +40 °C<br>The temperature must not fall below the minimum temperature during curing.   |                   |      |        |              |        |              |        |              |        |              |  |
| Relative Air Humidity   | Max. 80 %   |                   |      |        |              |        |              |        |              |        |              |  |
| Dew Point               | Beware of condensation!<br>The substrate and uncured membrane must be at least 3°C above dew point to reduce the risk of condensation or blooming of the membrane finish.   |                   |      |        |              |        |              |        |              |        |              |  |
| Substrate Temperature   | Min. +8 °C, max. +40 °C<br>The temperature must not fall below the minimum temperature during curing.   |                   |      |        |              |        |              |        |              |        |              |  |
| Pot Life                | <table border="1"> <thead> <tr> <th>Temperature</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>+10 °C</td> <td>~ 45 minutes</td> </tr> <tr> <td>+20 °C</td> <td>~ 30 minutes</td> </tr> <tr> <td>+30 °C</td> <td>~ 15 minutes</td> </tr> <tr> <td>+40 °C</td> <td>~ 10 minutes</td> </tr> </tbody> </table> | Temperature       | Time | +10 °C | ~ 45 minutes | +20 °C | ~ 30 minutes | +30 °C | ~ 15 minutes | +40 °C | ~ 10 minutes |  |
| Temperature             | Time  |                   |      |        |              |        |              |        |              |        |              |  |
| +10 °C                  | ~ 45 minutes  |                   |      |        |              |        |              |        |              |        |              |  |
| +20 °C                  | ~ 30 minutes  |                   |      |        |              |        |              |        |              |        |              |  |
| +30 °C                  | ~ 15 minutes  |                   |      |        |              |        |              |        |              |        |              |  |
| +40 °C                  | ~ 10 minutes  |                   |      |        |              |        |              |        |              |        |              |  |

### Waiting Time / Overcoating

| Overcoating of Sikalastic®-810 |                        |                        |
|--------------------------------|------------------------|------------------------|
| Temperature                    | Minimum <sup>1</sup> . | Maximum <sup>2</sup> . |
| +10 °C                         | ~ 3 hours              | ~ 6 hours              |
| +20 °C                         | ~ 2 hours              | ~ 4 hours              |
| +30 °C                         | ~ 1 hour               | ~ 2 hours              |
| +40 °C                         | ~ 40 minutes           | ~ 1 hour               |

1. Sikalastic®-810 may be overcoatet as soon as a skin has formed which is still slightly sticky.
2. If the maximum waiting time is exceeded again, Sikalastic®-810 must be revised with itself and with a maximum of 20 wt.-% Sika® Thinner C again.

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.

In doubt: Apply a test area first.

Sikalastic®-810 is always applied to a Sikalastic®-LAM, in which the intermediate waiting time was exceeded. Please refer to the product data sheet of the respective product.

### MIXING

Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 2 minutes until a uniform mix has been achieved. When parts A and B have been mixed, add Sika® Thinner C and mix for a further 2 minutes until a uniform mix has been achieved. To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix. Over mixing must be avoided to minimise air entrainment.

### Mixing Tools

Sikalastic®-810 must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

### APPLICATION

Prior to application, confirm substrate moisture content, relative air humidity and dew point.

Sikalastic®-810 is poured out and spread evenly with a short-pile nylon roller

### CLEANING OF TOOLS

Clean all tools and application equipment with Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.

### LIMITATIONS

- Freshly applied Sikalastic®-810 must be protected from damp, condensation and water until overcoating.
- Avoid puddles.
- The already mixed and diluted must be applied not exceeding the recommended material consumption and thickness. Higher consumption may lead to the formation of blisters on the surface.

## BASIS OF PRODUCT DATA

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.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

### VOC DATA

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA/j type sb) is 550/500 g/l (Limits 2007/2010) for the ready to use product. The maximum content of Sikalastic®-810 is < 500 g/l VOC for the ready to use product.

## 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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