Construction

Sikalastic®-810

Bonding Bridge for Waterproofing Membranes

Product Description	**Sikalastic®-810** is a two part, polyurethane adhesion promoting bonding bridge.
Uses	■ Bonding bridge for overlapping or overcoating of Sikalastic® waterproofing membranes when exceeding the maximum waiting time e.g. with Sikalastic®-821 / Sikalastic®-821LV / Sikalastic®-822 / Sikalastic®-830
Characteristics / Advantages	■ Good adhesion on flexible PUR coatings ■ Contains no solvents ■ Fast curing ■ Low material consumption ■ Sprayable
Tests	
Approval / Standards	Conforms to the requirements of ZTV-BEL-B, Part 3, 1995 edition. Certificate: P 1700-1, P 1700-2 and P 2366; by Polymer Institute Dr. Stenner GmbH
External Supervision	Polymer Institute Dr. Stenner GmbH.

Product Data

Form

Appearance / Colours	Resin - part A : yellowish / brownish liquid Hardener - part B : dark brown liquid
Packaging	Part A : 9.0 kg container Part B : 4.5 kg container Part A+B: 13.5 kg ready to mix units

Storage

Storage Conditions / Shelf Life	12 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.

Technical Data

Chemical Base	Polyurethane

Density	Part A : ~ 1.481 kg/litre Part B : ~ 1.229 kg/litre Mixed resin : ~ 1.380 kg/litre All Density values at +23°C.	(DIN EN ISO 2811-1)
Solid Content	100%	
Viscosity	Part A: ~ 6250 mPas Part B: ~ 125 mPas	

System Information

System Structure

Primer: 2 x Sikagard®-186
Waterproofing : 1 x Sikalastic®-821 / -821 LV / -822 / -830
Bonding bridge : 1 x **Sikalastic®-810** (if max. waiting time was exceeded)
Subsequent layer: 1 x Sikalastic®-821 / -821 LV / -822 / -830 / -445
The system configuration as described must by fully complied with an may not be changed.

Application Details

Consumption / Dosage

Coating System	Product	Consumption
Bonding bridge (when exceeding the max. waiting time)	1 x **Sikalastic®-810** + 15 wt.-% Thinner C	0.05 - 0.09 kg/m²

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

Substrate Quality

The surface must be dry and free of all contaminants such as oil, grease, coatings and surface treatments etc. Pull-off strength must be not less than 1.5 N/mm². In doubt, apply a test area first.

Substrate Preparation

All dust, loose and friable material must be completely removed.

Application Conditions / Limitations

Substrate Temperature

+8°C min. / +45°C max.

Ambient Temperature

+8°C min. / +45°C max.

Substrate Moisture Content

≤ 4% pbw moisture content.
Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method.
No water / moisture / condensation on the substrate.
No rising moisture according to ASTM (Polyethylene-sheet).
Check Dew point before application of **Sikalastic®-810.**

Relative Air Humidity

80% r.h. max.

Dew Point

Beware of condensation!
The ambient temperature during application must be at least 3°C above the dew point.

Application Instructions

Mixing

Part A : part B = 2 : 1 (by weight)

Mixing Time

Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 3 minutes until a uniform mix has been achieved. Add 15% Thinner C and mix again until a uniform mix has been achieved.
To ensure thorough mixing pour materials into another container and mix again to uniform consistent mix.
Over mixing must be avoided to minimise air entrapment.

Mixing Tools

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

Application Method / Tools

Prior to application, confirm r.h and dew point.
Bonding bridge:
Uniformly apply 1 x **Sikalastic®-810** using a short pile (12 mm) nylon roller or by spray. For spray application use cup guns, airless spray or pressure feed equipment.

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.

Potlife

Temperatures	Time
+10°C	~ 45 minutes
+20°C	~ 30 minutes
+30°C	~ 15 minutes
+45°C	~ 10 minutes

Waiting Time / Overcoating

Before applying Sikalastic® products on **Sikalastic®-810** allow:

Temperatures	Minimum	Maximum
+10°C	180 minutes	6 hours [1])
+20°C	120 minutes	4 hours [1])
+30°C	60 minutes	2 hours [1])
+45°C	40 minutes	1 hour [1])

[1]) If the max. waiting time is exceeded, then **Sikalastic®-810** must be overworked with itself with max. 20 wt.-% Thinner C.

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

Notes on Application / Limitations

The diluted material must be applied thinly but continuously. The recommended material consumption must be strictly observed, otherwise it may lead to the formation of blisters. Avoid puddles on the surface.
Temperature of substrate during application and curing: at least +8°C.

Curing Details

Applied Product ready for use

Temperature	**Sikalastic®-810** can be overcoated, as soon as it has formed a film which is still slightly tacky. Dependent on ambient conditions this will be reached after:
+10°C	~ 180 minutes
+20°C	~ 120 minutes
+30°C	~ 60 minutes
+45°C	~ 45 minutes

Note: Times are approximate and will be affected by changing ambient conditions.

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.

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.

Construction

Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users should 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.
EU Regulation 2004/42 VOC - Decopaint Directive	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.

Sika Gulf B.S.C (c)
Bldg. 925, Road 115, Sitra Area 601
P.O. Box 15776
Adliya, Kingdom of Bahrain
TEl.:+973 17738 188
Fax:+973 17732 476
E-mail:sika.gulf@bh.sika.com
Web: http//www.sika.com.bh