

# PRODUCT DATA SHEET

## Sikalastic®-822

### HAND APPLIED LIQUID WATERPROOFING MEMBRANE

#### DESCRIPTION

Sikalastic®-822 is a 2-part elastic, crack bridging, hand applied polyurethane membrane.

#### USES

Sikalastic®-822 may only be used by experienced professionals.

- As waterproofing membrane underneath hot poured asphalt on bridge and car park decks
- As waterproofing membrane for other concrete structures and non-trafficked concrete areas with an additional top coat for UV protection
- As repair kit for Sikalastic®-821 LV
- As waterproofing for upstands and details on torched bituminous membranes

#### CHARACTERISTICS / ADVANTAGES

- excellent crack bridging properties
- Highly elastic waterproofing membrane

#### APPROVALS / CERTIFICATES

- Polymer Institute Dr. Stenner GmbH, test report P 1700-1 and P1700-2, confirmation with requirements of ZTV-BEL-B, part 3, 1995
- Kiwa Polymer Institute, test report 5879, additional testing according ETAG 033
- Otto-Graf-Institute, University of Stuttgart, test report 16-31835, fire behaviour according DIN 4102, part 7

#### PRODUCT INFORMATION

<b>Composition</b>	2-component polyurethane resin
<b>Packaging</b>	Part A: 21 kg drum Part B: 14 kg drum
<b>Appearance / Colour</b>	grey, approx. RAL 7005
<b>Shelf life</b>	6 months from date of production
<b>Storage conditions</b>	Store properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures from +5 °C to +25 °C. Protect from direct sunlight and frost.
<b>Density</b>	Part A: ~1.69 kg/ Part B: ~1.05 kg/l Mixed resin: ~1.33 kg/l
<b>Solid content by weight</b>	~96 %

**Viscosity**

Part A: ~14 500 mPa·s  
 Part B: ~9 300 mPa·s

**TECHNICAL INFORMATION**

<b>Tensile Strength</b>	~4.4 N/mm <sup>2</sup>	(DIN 53504)
<b>Elongation at Break</b>	350 % – 400 %	(DIN 53504)
<b>Crack Bridging Ability</b>	up to 0.3 mm at -20 °C	
<b>Chemical Resistance</b>	resistant to de-icing salts, bitumen and alkalis	
<b>Temperature Resistance</b>	short term resistant to mastic asphalt up to +240 °C	

**APPLICATION INFORMATION**

<b>Mixing Ratio</b>	Part A : Part B = 60 :40 (by weight)	
<b>Consumption</b>	~1.33 kg/m <sup>2</sup> /mm	
<b>Layer Thickness</b>	Min. 2 mm	
<b>Ambient Air Temperature</b>	+8 °C min. / +40 °C max.	
<b>Relative Air Humidity</b>	max. 85 %	
<b>Dew Point</b>	The substrate and the uncured membrane must be at least 3°C above dew point to reduce the risk of condensation or blooming on the membrane finish. Beware of condensation	
<b>Substrate Temperature</b>	+8 °C min / +40 °C max.	
<b>Substrate Moisture Content</b>	≤ 4% according CM method	
<b>Pot Life</b>	<b>Temperature</b>	<b>Time</b>
	+10 °C	~40 minutes
	+20 °C	~30 minutes
	+30 °C	~20 minutes
	+40 °C	~10 minutes

**Waiting Time / Overcoating**

Before applying Sikalastic®-823 / Sikalastic®-825 allow:

<b>Temperature</b>	<b>Minimum</b>	<b>Maximum</b>
+10 °C	16 hours	1 month <sup>1)</sup>
+20 °C	12 hours	1 month <sup>1)</sup>
+30 °C	10 hours	1 month <sup>1)</sup>
+40 °C	8 hours	1 month <sup>1)</sup>

<sup>1)</sup> Assuming that dirt has been removed properly and contamination is avoided

**APPLICATION INSTRUCTIONS****MIXING**

Prior to mixing stir part A mechanically. When all of part B is added to part A mix continuously for 3 minutes until a uniform mix has been achieved. To ensure thorough mixing pour material in a clean container and mix again to achieve consistent mix. Over mixing must be avoided to minimise air entrapment.

**APPLICATION**

Sikalastic®-822 is poured and then spread evenly with a notched / toothed trowel. Roll immediately in cross wise with a spiked roller to ensure even thickness and

to remove any entrapped air.

**CLEANING OF EQUIPMENT**

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

**IMPORTANT CONSIDERATIONS**

- In order to avoid blistering it is recommended to apply during falling temperatures.
- Control film thicknesses during application by using a thickness gauge.
- For application on vertical or inclined surfaces, up to 2 % by weight Extender T must be added to increase

sag resistance.

- Sikalastic®-822 is not UV light resistant and changes colour under UV exposure, however the performance and properties are not affected provided the exposure is max. 4 weeks. It is therefore advisable to overcoat Sikalastic®-822 with hot poured asphalt as early as possible.
- Areas not to be overlaid with asphalt and which are permanently exposed to UV radiation must be overcoated with a suitable protective coating.
- In wet areas or climatic zones with a permanent air humidity of > 80 % in combination with a permanent air temperature of > +30 °C, the adhesion promoter Sikalastic®-810 must be used.
- Please note that Sikalastic®-822 is not suitable for applications with permanent water load.
- Prior to placing the asphalt, the tack coat Sikalastic®-823 must be applied by brush, roller or spray.
- All systems with a different type of asphalt (i.e. other than hot poured asphalt) must be approved and in accordance with local specifications. For this purpose a reference area must to be carried out, to be approved by the awarding authority. Sika excludes any responsibility for all asphalt layers.
- If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO<sub>2</sub> and H<sub>2</sub>O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

## 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.

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

### DIRECTIVE 2004/42/CE LIMITATION OF EMISSIONS OF VOC

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®-822 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.

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