

# PRODUCT DATA SHEET

## Sikalastic®-822

### HAND APPLIED LIQUID WATERPROOFING MEMBRANE

#### DESCRIPTION

Sikalastic®-822 is a 2-part elastic, crack bridging, hand applied polyurethane membrane. Suitable for use in hot and tropical climatic conditions.

#### 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 and Sikalastic®-851 (R)
- 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, approximately RAL 7005
<b>Shelf life</b>	6 month 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/l Part B: ~1.05 kg/l Mixed resin: ~1.33 kg/l
<b>Solid content</b>	~96 % by weight
<b>Viscosity</b>	Part A: ~14500 mPas Part B: ~9300 mPas

## TECHNICAL INFORMATION

<b>Tensile Strength</b>	~4.4 N/mm <sup>2</sup>	DIN 53504	
<b>Elongation at Break</b>	350 % to 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		
<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 min	
	+20 °C	~30 min	
	+30 °C	~20 min	
	+40 °C	~10 min	
<b>Waiting Time / Overcoating</b>	Before applying Sikalastic®-823/ Sikalastic®-825 allow:		
	<b>Temperature</b>	<b>Minumum</b>	<b>Maximum<sup>1)</sup></b>
	+10 °C	16 h	1 month
	+20 °C	12 h	1 month
	+30 °C	10 h	1 month
+40 °C	8 h	1 month	
1) 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 % BTW. 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 maximum 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 hu-

midity of > 80 % in combination with a permanent air temperature of > +30 °C, the adhesion promoter Sikalastic®-810 or Sika® Concrete Primer 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 (example: 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 Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

## 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.

## 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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All products are supplied  
under a management  
system certified to conform  
to the requirements of the  
quality, environmental and  
occupational health &  
safety standards ISO 9001,  
ISO 14001 and OHSAS  
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Product Data Sheet

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