

BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic®-841 ST

LIQUID APPLIED PURE POLYUREA MEMBRANE

DESCRIPTION

Sikalastic®-841 ST is a two part, elastic, 100 % solids, very fast curing and coloured pure polyurea liquid applied membrane with good chemical resistance.

USES

Sikalastic®-841 ST may only be used by experienced professionals.

On concrete

- Bridge deck waterproofing membrane
- Abrasion resistant protective coating in industrial and manufacturing facilities
- Waterproofing for cut and cover structures
- Waterproofing for submersed structures
- Waterproofing on walkways and balconies
- Waterproofing on floors and car park decks
- Water retaining structures in power plants
- Secondary containment structures
- Tank, bund and pit lining in sewage and waste water treatment plants

CHARACTERISTICS / ADVANTAGES

- Very fast reactivity and curing time
- Almost immediate return-to-service time
- Applicable in temperatures from +1 °C to +50 °C
- Performs in constant dry temperatures from -30 °C to +100 °C
- Excellent crack bridging properties
- Good chemical resistance
- UV resistance
- Excellent abrasion resistance
- Not resistant to biogenic sulphuric acid

APPROVALS / STANDARDS

- Coating for concrete protection according the requirements of EN 1504-2/2004, DoP 02 07 02 05 001 0 000014, certified by FPC Notified Body and provided with CE-Marking
- Geoscope GmbH, project No. 131303B, 2013, Determination of the durability of the synthetic membrane Sikalastic-841 ST in an autoclave, based on DIN EN ISO 13438
- BBA/ HAPAS certificate 13/H204 for the use as bridge deck waterproofing membrane according UK standard
- ETA 033 certificate, No. 13/0653 according ETAG 033
- KIWA Polymer Institut GmbH, report No. P7074-2, 2013, Testing od static and dynamic crack bridging ability in accordance with DIN EN 1062-7, as well as bond strength after freeze-thaw-cycling with de-icing salt immersion and after thundershower cycling acc. DIN EN 13687-1 and -2, in combination with Sikafloor®-161
- Truesday Laboraties Inc, certificate for the use in drinking water installations according NSF-ANSI 61, section 6
- KIWA Polymer Institute GmbH, report No. P7934, 2013, Testing of the root resistance according DIN 4062

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PRODUCT INFORMATION

Chemical Base	Pure Polyurea			
Packaging	Part A (Isocyanate)		212 kg drums approx. 189 litres	
	Part B (Amine) 19		191 kg drums approx. 189 litres	
Appearance / Colour	Part A clear			
	Part B grey			
	Grey, approx. RAL 7005			
Shelf Life	12 month from date of production			
Storage Conditions	The packaging must be stored properly in original, unopened and undamaged sealed packaging, in dry and cool conditions. Protected from direct sunlight.			
Density	Part A	approx. 1.12 kg/litre		
	Part B	approx. 1.01 kg/litre		
	Density values dete	ermined at +20 °C		
Viscosity	Temperature	Part A	Part B	
	+20 °C	approx. 1200 mPas	approx. 800 mPas	
	+25 °C	approx. 750 mPas	approx. 500 mPas	
TECHNICAL INFORMATI	ON			
Shore D Hardness	~ 45–50	(DIN 53505)		
Mechanical Resistance	~ 230 mg	H22 / 1000 g / 100		
	~ 100 mg	H17 / 1000 g / 1000 cy		
Tensile Strength	> 15 N/mm²	(DIN 53504)		
Elongation at Break	~ 360 %	(DIN 53504		
Crack Bridging Ability	Class A5	Static	(DIN EN 1062-7)	
	Class B4.2	Dynamic	(DIN EN 1062-7)	
APPLICATION INFORMA	ATION			
Mixing Ratio	Part A: Part B = 1:1 volume			
Consumption	approx. 1.05 kg/m²/mm			
Layer Thickness	> 2 mm (Crucial System) ≥ 1.5 mm (Standard System)			
Product Temperature	>+65°C			
Ambient Air Temperature	-20 °C +50 °C			
Relative Air Humidity	< 85 %			
Substrate Temperature	+1 °C +50 °C ≥ 3 °C above dew point, beware of condensation			
Curing Time	24 h / +20 °C			
Gel time	~ 11 sec / +20 °C			

1 to 2 min / +20 $^{\circ}\text{C}$



Waiting Time / Overcoating

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APPLICATION INSTRUCTIONS

Coating System	Product	Consumption
System for	1 x Sikafloor®-	0.3-0.5 kg/m ²
concrete struc-	156 or	
tures	1 x Sikafloor®-	
	161	
System for	Lightly broadcast	
concrete struc-	with quartz sand,	1.0-1.5 kg/m ²
tures	0.3-0.8 mm	
System for	1 x Sikalastic®-	~ 1.06 kg/m²/mm
concrete struc-	841 ST	·
tures		

Dose and mix with a suitable air driven or electrical plural component heated spray equipment. Both components must be heated up to +70 °C. The accuracy of mixing and dosage must be controlled regularly with the equipment. Thoroughly stir part B (Amine) using a drum stirrer until a homogenous colour is obtained.

CLEANING OF TOOLS

Clean all tools with Thinner C immediately after use. The application equipment has to cleaned and filled with Mesamoll. Hardened and/or cured material can only be removed mechanically.

LIMITATIONS

- This product may only be used by experienced professionals.
- For spray application the use of protective health and safety equipment is mandatory.
- The maximum layer thickness per application pass shall not exceed 4mm, for the build-up of higher thickness several passes have to applied.
- UV light exposure may lead to yellowing and chalking
- The performance and technical properties of Sikalastic®-841 ST are not affected by UV exposure. Sikalastic®-841 ST is UV light resistant but may lead to yellowing and surface chalking under UV exposure.

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.

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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 500 g/litre (Limits 2010) for the ready to use product.

The maximum content of Sikalastic®-841 ST is < 500 g/litre 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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