

PRODUCT DATA SHEET

Sikalastic®-841 ST HK

Liquid applied pure polyurea membrane

DESCRIPTION

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

On concrete

- Waterproofing on roof for civil or building structure
- 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

On steel

- Truck bed lining
- Waterproofing and wearing layer on steel ridges

CHARACTERISTICS / ADVANTAGES

- Very fast reactivity and curing time
- Almost immediate return-to-service time
- Applicable in temperatures from -20 °C to +50 °C
- Performs in constant dry temperatures from -30 °C to +100 °C
- Excellent crack bridging properties
- Good chemical resistance
- Excellent abrasion resistance

ENVIRONMENTAL INFORMATION

- Conformity with LEED v4 MRc 2 (Option 1): Building Product Disclosure and Optimization – Environmental Product Declarations
- Conformity with LEED v2009 IEQc 4.2: Low-Emitting Materials - Paints and Coatings

PRODUCT INFORMATION

Chemical Base	Pure Polyurea	
Packaging	Part A (Isocyanate)	212 kg drums ~ 189 litres
	Part B (Polyamine)	191 kg drums ~ 189 litres
Colour	Part A	Clear
	Part B	Grey
	Standard Colour approx. RAL 7012	

Shelf Life	Part A	12 months	
	Part B	12 months	
Storage Conditions	Stored properly in closed, sealed and undamaged packaging in dry conditions. Protect from direct sunlight		
Density	Part A	~ 1.12 kg/l	
	Part B	~ 1.01 kg/l	
Density values determined at +20 °C			
Viscosity	Temperature	Part A	Part B
	+20 °C	900–1300 mPa·s	600–850 mPa·s
	+25 °C	~ 750 mPa·s	~ 500 mPa·s

TECHNICAL INFORMATION

Shore A Hardness	> 50	(DIN 53505)
Tensile Strength	> 20 N/mm ² Elongation at break ~ 400%	(DIN 53504) (DIN 53504)
Crack Bridging Ability	Class A5	Static (DIN EN 1062-7)
	Class B4.2	Dynamic (DIN EN 1062-7)
Chemical Resistance	Sikalastic®-841 ST HK is resistant to de-icing salts, bitumen, alkalis, fresh- and ground water and various chemicals. Contact Sika technical service for specific information.	

SYSTEM INFORMATION

System Structure	Coating System for concrete structure	Product	Consumption
	Primer	1 × Sikafloor®-156 or 1 × Sikafloor®-161	0.3–0.5 kg/m ²
	Broadcast	Lightly broadcast with quartz sand, 0.3–0.8 mm	1.0–1.5 kg/m ²
	Base Coat	1 × Sikalastic®- 8800	~ 1.05 kg/m ² /mm
	Top Coat (optimal)	1 × Sikalastic® Eau Top	~ 0.2 kg/m ²
		or 1 × Sikalastic®-680 N+	~ 1.0 kg/m ²
		or 1 × Davco K10 Solartac	~ 0.5 -1.0 kg/m ²

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.

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B = 1 : 1 volume
Consumption	~ 1.05 kg / m ² / mm
Layer Thickness	> 1.5 - 2mm
Relative Air Humidity	< 85%
Ambient Air Temperature	-20 °C min. / +40 °C max.

Substrate Temperature	-20 °C min. / +50 °C max. ≥ 3°C above dew point, beware of condensation
Curing Time	24 h at +20 °C
Waiting Time / Overcoating	1–2 min at +20 °C

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.

LIMITATIONS

- The performance and technical properties of the Sikalastic®-841 ST HK will not be affected by UV light, however, prolonged exposure to UV may lead to yellowing.
- Not resistant to biogenic sulphuric acid

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.

APPLICATION INSTRUCTIONS

APPLICATION METHOD / TOOLS

For spray application the use of protective health and safety equipment is mandatory. Application by using a 2-component hot spray equipment. For more detailed information please refer to the Method Statement Sikalastic®-841 ST HK provided by Sika technical service.

CLEANING OF TOOLS

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

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.

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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