

PRODUCT DATA SHEET

Sikalastic®-8850

Polyurea spray applied chemical resistant membrane

DESCRIPTION

Sikalastic®-8850 is a 2- part, pure polyurea, hot spray applied, elastic, very fast curing, waterproofing membrane. Provides a seamless, abrasion and chemical resistant finish for liquid retaining structures. Thickness ≥ 2 mm.

USES

Sikalastic®-8850 may only be used by experienced professionals.

Concrete:

- Abrasion resistant protective coating in industrial and manufacturing facilities
- Waterproofing for cut and cover structures, submersed structures, walkways and balconies, 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

Steel:

- Truck bed lining
- Wear resistant coating on hydraulic steel structures

CHARACTERISTICS / ADVANTAGES

- Seamless
- 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
- Good crack bridging properties
- Good chemical and abrasion resistance
- Not resistant to biogenic sulphuric acid

PRODUCT INFORMATION

Chemical base	Pure Polyurea				
Packaging	Component A (ISO)	200 l drum (225kg)			
	Component B (Resin)	200 l drum (205kg)			
Shelf life	Component A (ISO)	12 months from date of production			
	Component B (Resin)	12 months from date of production			
Storage conditions		Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.			
Appearance / Colour	Grey				

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Density	Component A (ISO) Component B (Resin)	~1,00 ~1,15	(EN ISO 2811- 1:2011)	
Solid content by weight	~100 %		EN 13823:2010	
TECHNICAL INFORMATION	DN .			
Shore D Hardness	~48		(EN ISO 868:2005)	
Mechanical Resistance	< 3000 mg	H22/1000/1000	(EN 5470-1:2001)	
Tensile Strength	15–20 MPa		(ISO 527-1:2012)	
Elongation at Break	340–370 %		(ISO 527-1:2012)	
Crack Bridging Ability	Class A 4 (static) Class B3,1 (dynamic)		(EN 1062-7:2005) (EN 1062-7:2005)	
Tensile Adhesion Strength	≥ 1,5 MPa (to concrete)		(EN 1542:1999)	
Tear Strength	90–110 KN/m		(ISO 34-1:2010)	
CHEMICAL RESISTANCE		Sikalastic®-8850 is resistant to de-icing salts, bitumen, alkalis, fresh- and ground water and various chemicals. Contact Sika Technical Service for specific information.		
APPLICATION INFORMAT	ΓΙΟΝ			
Mixing ratio	Comp. A : Comp. B = 1 : 1			
Consumption	~1 kg/m²/mm			
Layer Thickness	~2mm			
Product Temperature	Comp. A (ISO) Comp. B (Resin)	+60 °C min. / +80 °C max +60 °C min. / +80 °C max		
Ambient Air Temperature	+5 °C min / +50 °C max			
Relative Air Humidity	≤ 85 %			
Dew Point		Beware of condensation. The substrate and uncured coating finish must be at least 3 °C above dew point to reduce the risk of condensation.		
Substrate Temperature	+5 °C min. / +50 °C max	-		
Substrate Moisture Content	Refer to primer product d	Refer to primer product data sheet		
Curing time	Fully cured after 24h / +23 °C			
Gel time	8–10 seconds	8–10 seconds		

Substrate Temperature Minimum

10 °C

23 °C

30 °C

BASIS OF PRODUCT DATA

Waiting Time / Overcoating

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.

IMPORTANT CONSIDERATION

For overcoating with Sikalastic®-8850 or UV resistant top coats allow:

10 - 15 s

10 - 15 s

10 - 15 s

- For spray application the use of protective health and safety equipment is mandatory.
- Application by using a 2-component hot spray equipment.

Maximum

7 h

6 h

5 h

• Under UV and weathering colour will change.

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- Freshly applied Sikalastic®-8850 must be protected from damp, condensation and liquid water for at least 30 minutes.
- The incorrect assessment of cracks may lead to reduced service life time and reflective cracking.
- If, during application, heating is required do not use gas, oil, paraffin or other fossil fuel heaters. These produce a large quantity of CO₂ and H₂O water vapour which may adversely affect the finish. For heating use only electric powered warm air blower systems.
- Do not apply Sikalastic®-8850 on substrates with rising moisture.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains 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 type category IIA/ j type sb) is 500 g/l (Limits 2010) for ready to use product.

The maximum content of Sikalastic®-8850 is < 500 g/l VOC for ready to use product.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Cementitious substrates (concrete) must be structurally sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum tensile strength of 1,5 N/mm².

Cementitious substrates and steel surfaces must be clean, dry and free of all contaminants such as dirt, oil, grease, existing coatings and surface treatments, etc.

SUBSTRATE PREPARATION

Cementitious substrates

Must be prepared mechanically using suitable abrasive blast/water jetting cleaning equipment to remove cement laitance and achieve an open textured surface profile suitable for the product thickness.

Weak cementitious substrates must be removed and surface defects such as blow holes and voids must be fully exposed. Priming, repairs to the substrate, filling of cracks, blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials. Products must be cured before applying Sikalastic®-8850.

Steel surfaces

Must be prepared mechanically using suitable abrasive blast/water jetting cleaning equipment to to the requirements of the proposed manufacturer's corrosion protection system.

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by vacuum extraction equipment. After preparation, apply a non-solvent based protective coating i.e. SikaCor® 146 DW.

MIXING

Dose and mix with a suitable air driven or electrical plural component heated spray equipment. Both components must be heated up to the temperatures: Comp. A (ISO): +60 °C, Comp. B (Resin): +80 °C. The accuracy of mixing and dosage must be controlled regularly with the equipment. Thoroughly stir part B (Resin) using a drum stirrer until a consistent colour is obtained.

APPLICATION

Sikalastic®-8850 is spray applied in a continuous application to achieve a consistent thickness and surface finish.

CLEANING OF TOOLS

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

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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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