BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic®-8800

LIQUID APPLIED PURE POLYUREA MEMBRANE

PRODUCT DESCRIPTION

Sikalastic®-8800 is a two part, elastic, 100 % solids, very fast curing and coloured pure polyurea liquid applied membrane with good chemical resistance.

USES

Sikalastic®-8800 installation works to be carried out only by Sika Approved Contractors. Please observe information given by Product Data Sheets.

On concrete
- 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
- UV light exposure may lead to yellowing
- Not resistant to biogenic sulphuric acid

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

APPROVALS / STANDARDS

- Coating for concrete protection according the requirements of EN 1504-2:2004, Declaration of Performance 020607010010000027100 8, certified by FPC Notified Body and provided with CE-Marking
- Geoscope GmbH, project No. 131303A, 2013, Determination of the durability of the synthetic membrane Sikalastic-8800 in an autoclave, based on DIN EN ISO 13438
- Eurofins Product Testing A/S, report No. G23435_Ver2/BJ1, 2013, Determination of the overall migration and migration of isocyanates acc. EN 1186 and EN 14338
- KIWA Polymer Institut GmbH, report No. P8331-E, 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®-156
- KIWA Polymer Institute GmbH, report No. P8395, 2013,Testing of the root resistance according DIN 4062
- KIWA Polymer Institute GMBH, report No. P92787-1-E, Tests on a coating system in accordance with test category OS 11/A, according DIN V 18026 in accordance with EN 1504-2
- Radon diffusion coefficient EN ISO/IEC17025 Sikalastic®-8800, CTU in Prague, Test Report No.124042/2017

PRODUCT INFORMATION

Chemical Base	pure Polyurea	
Packaging	Part A (Isocyanate)	212 kg drums ~189 litres
	Part B (Polyamine)	191 kg drums ~189 litres
Shelf Life	Part A	12 months
	Part B	12 months
Storage Conditions	From date of production if stored properly in closed, sealed and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C. 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/mm²		(DIN 53504)
Elongation at Break	~400 %		(DIN 53504)
Crack Bridging Ability	Class A5	Static	(DIN EN 1062-7)
	Class B4.2	Dynamic	(DIN EN 1062-7)
Chemical Resistance	Sikalastic®-8800 is resistant to de-icing salts, bitumen, alkalis, fresh- and ground water and various chemicals. Contact Sika technical service for specific information.		

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B = 1 : 1 volume
Consumption	~1.05 kg / m² / mm
Layer Thickness	> 2mm
Ambient Air Temperature	-20 °C min. / +40 °C max.
Relative Air Humidity	< 85 %
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

APPLICATION INSTRUCTIONS

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

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®-8800 provided by Sika technical service.

VALUE BASE

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

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

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®-8800 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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