BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic®-8800

LIQUID APPLIED PURE POLYUREA MEMBRANE

DESCRIPTION

Sikalastic®-8800 is a two part, elastic, 100 % solids, very fast curing and coloured pure polyurea liquid applied membrane with good chemical resistance. Suitable for use in hot and tropical climatic conditions.

USES

Sikalastic®-8800 may only be used by experienced professionals.

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
- Excellent crack bridging properties
- Good chemical resistance
- Excellent abrasion resistance
- UV light exposure may lead to yellowing

SUSTAINABILITY

- 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 / CERTIFICATES

- Coating for concrete protection according the requirements of EN 1504 - 2: 2004, DoP 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 according to EN 1186 and EN 14338
- KIWA Polymer Institut GmbH, report No. P8331 - E, 2013, Testing of 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 according 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.

PRODUCT INFORMATION

Composition	Pure Polyurea	
Packaging	Part A (Isocyanate)	212 kg drums ~189 L
	Part B (Polyamine)	191 kg drums ~189 L
Appearance / Colour	Part A	Clear
	Part B	Grey
	Standard colour approximately RAL 7012, basalt grey. Grey, approximately RAL 7004 on request.	
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 mPas	600 - 850 mPas
+25 °C	~750 mPas	~500 mPas

TECHNICAL INFORMATION

Shore D Hardness	> 50		(DIN 53505)
Mechanical Resistance	0 mg	CS17 / 1000 g / 1000 cy	(ISO 5470-1)
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	> 1.5 mm	Dampproofing (not UV exposed / Hard landscape)
	> 2 mm	Fully submerged or UV exposed or soft landscape areas
	For further information contact Sika Technical Department. All properties have been tested with a minimum layer thickness of 2 mm.	
Product Temperature	> +65 °C	
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
Gel time	~11 sec at +20 °C
Waiting Time / Overcoating	1 to 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 minimum +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. Spray trial should be done before commencing any work to setup spray equipment properly (eg. hose and material temperature, pressure etc.). Refer to method statement for further information.

SUBSTRATE QUALITY

The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm2) with a minimum pull off strength of 1.5 N/mm2.
The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.
Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed.
Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur®, Sika® Monotop®, SikaRep® and Sikagard® range of materials.
All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.

SUBSTRATE PREPARATION

The surface must be sound, of sufficient strength, clean, dry and free of dirt, oil, grease and other contamination.
All substrate must be primed or mechanically cleaned. Grinding may be necessary to level the surface. Suitable substrates are, for example Concrete, bituminous felts.
For detailed information regarding substrate preparation and primer chart please refer to Method Statement.

Substrate	**Pre-Treatment**	**Substrate Primer**
Cementitious substrates		Sikafloor®-161 lightly broadcast with quartz sand, 0.3 – 0.8 mm, for example Sikadur®-507

For the consumption rates and waiting time / overcoating please refer to the PDS of the appropriate primer. Other substrates must be tested for their compatibility. If in doubt, apply a test area first.

CLEANING OF EQUIPMENT

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.

IMPORTANT CONSIDERATIONS

- 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 Department.
- Sikalastic®-8800 is not resistant to biogenic sulphuric acid.
- Service temperatures: Performs in constant dry temperatures from -30 °C to +100 °C
- Service temperatures: Performs in continuous immersion at maximum average temperatures +50°C

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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