

PRODUCT DATA SHEET

Sikalastic®-844 XT

CHEMICAL RESISTANT PURE POLYUREA MEMBRANE

PRODUCT DESCRIPTION

Sikalastic®-844 XT is a two part, elastic, 100% solids, very fast curing and coloured pure polyurea, liquid applied membrane with excellent chemical resistance.

USES

Sikalastic®-844 XT may only be used by experienced professionals.

Sikalastic®-844 XT is used as:

- Abrasion resistant protective coating in industrial and manufacturing facilities
- Tank, bund and pit lining in sewage and waste water treatment plants
- Suitable for the use in areas with presence of biogenic sulphuric acid

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
- Good crack bridging properties
- Excellent chemical resistance
- Excellent abrasion resistance
- UV light exposure may lead to yellowing and chalking
- Resistant to biogenic sulphuric acid

ENVIRONMENTAL INFORMATION

According USGBC LEED Rating Sikalastic®-844 XT conforms to the requirements of LEED EQ Credit 4.2: Low – Emitting Materials: Paints & Coatings SCAQMD Method 304-91 VOC Content < 100g/l.

APPROVALS / STANDARDS

- Coating for concrete protection according the requirements of EN 1504-2/2004, DoP 02 07 02 05 001 0000017, certified by FPC Notified Body and provided with CE-Marking
- Kiwa Polymer Institut GmbH, report No. P7074-1, 2011, 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 acc. DIN EN 13687-1 and -2, in combination with Sika-floor®-161
- KB-Hoch, report No. 100591, 2010, Reaction to fire classification according DIN EN ISO 13501-1

PRODUCT INFORMATION

Chemical Base	pure polyurea	
Packaging	Part A (Isocyanate)	209.8 kg drums approx. 189 litres
	Part B (Amine)	181.4 kg drums approx. 189 litres

Appearance / Colour	Part A	clear	
	Part B	grey	
	Grey, approx. RAL 7005		
Shelf Life	Part A: 12 month Part B: 12 month		
Storage Conditions	The packaging must be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C. Protected from direct sunlight.		
Density	Part A	approx. 1.11 kg/l	
	Part B	approx. 0.96 kg/l	
	Density values determined at +23°C		
Solid Content	~ 99%		
Viscosity	Temperature	Part A	Part B
	+20°C	approx. 1700 mPas	approx. 1700 mPas

TECHNICAL INFORMATION

Shore Hardness	Shore D: 45 - 50		(DIN 53505)
Mechanical Resistance	~100 mg	H22 / 1000 g / 1000 cy	(ISO 5470-1)
	~108 mg	H17 / 1000 g / 1000 cy	
Tensile Strength	> 10 N/mm ²		(DIN 53504)
Elongation at Break	50 - 100 %		(DIN 53504)
Crack Bridging Ability	Class A4	Static	(DIN EN 1062-7)
	Class B3.1	Dynamic	(DIN EN 1062-7)
Chemical Resistance	Sikalastic®-844 XT is resistant to various chemicals. Contact Sika technical service for specific information.		

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B = 1 : 1 volume		
Consumption	approx. 1.08 kg /m ² / mm		
Layer Thickness	> 2 mm		
Product Temperature	> +65°C		
Ambient Air Temperature	+1°C ... +40°C		
Relative Air Humidity	< 85%		
Dew Point	The substrate and the uncured membrane must be at least +3°C above dew point to reduce the risk of condensation. Beware of condensation.		
Substrate Temperature	+1°C ... +50°C		
Curing Time	24 h / +20°C		
Gel time	~ 10 sec / + 20°C		
Waiting Time / Overcoating	1 to 2 min / +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 be 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 apply in several passes.

VALUE BASE

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.

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 Safety Data Sheet (SDS) containing 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 category IIA / j type sb) is 550 / 500 g/l (Limits 2007 / 2010) for the ready to use product. The maximum content of Sikalastic®-844 XT 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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