

# Sikalastic®-8800

## Liquid applied pure polyurea membrane

Construction

### Product Description

Sikalastic®-8800 is a two part, elastic, 100% solids, very fast curing pure polyurea liquid applied membrane with good chemical resistance.  
Sikalastic®-8800 shall not be used in closed structures containing biogenic sulphuric acid  
Sikalastic®-8800 can only be spray applied with special two part hot spray equipment.

### Uses

For waterproofing applications on concrete

Typical uses:

- Protective coating
- Bund coatings/linings
- Roof coatings
- Walkways and balconies
- Flooring and parking decks
- Industrial and manufacturing facilities
- Landscape and water containment
- Power plants
- Sewage and Waste Water Treatment plants
- Truck bed lining

### Characteristics / Advantages

- Very fast reactivity and curing time
- Almost immediate return-to-service time
- Applicable in temperatures from +5°C to 50°C
- Performs in constant dry temperatures from -30°C to 100°C
- 100% solids with zero VOC
- Excellent crack-bridging properties
- Good chemical resistance
- Good abrasion resistance

### Product Data

#### Form

#### Appearance / Colours

ISO - Part A: clear liquid  
Resin - Part B: grey liquid  
Grey ~ RAL 7005

#### Packaging

Part A (net): 212,0 kg drum  
Part B (net): 191,0 kg drum



## Storage

### Storage Conditions / Shelf Life

Part A: 12 months  
Part B: 12 months

From date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.

## Technical Data

### Chemical Base

Pure Polyurea

### Density

Part A: ~ 1.12 kg/litre  
Part B: ~ 1.01 kg/litre  
All Density values at +23°C

### Gel Time

5 to 20 seconds

### Tack Free Time

60 to 120 seconds

### Post Cure Time

24 hours

### Solid Content

> 99%

### Viscosity

Part A: 900-1300mPas @+20°C // ~ 750mPas @+25°C  
Part B: 600-850mPas @+20°C // ~ 500mPas @+25°C

## Mechanical / Physical Properties

### Tensile Strength

> 15 N/mm<sup>2</sup>

DIN 53504

### Shore D Hardness

> 45

DIN 53505

### Elongation at Break

~400 %

DIN 53504

### Abrasion Resistance

test to be done

### Crackbridging properties

Static class A5 >2500µm  
Dynamic: class B4.2

DIN EN 1062-7

## Resistance

### Chemical Resistance

Sikalastic®-8800 is resistant to many chemicals. Product related chemical resistance list is under testing

### Thermal Resistance

Sikalastic®-8800 performs in constant temperatures from -30°C to 100°C.

## Application Details

### Consumption / Dosage

Coating System	Product	Consumption
System for concrete structures	1-2 x Sikafloor®-156 or Sikafloor®-161, lightly broadcast with quartz sand, 0.3 - 0.8 mm (optional)	0.3 - 0.5 kg/m <sup>2</sup> per layer 1.0 - 1.5 kg/m <sup>2</sup>
	1 x Sikalastic®-8800	~ 1.08 kg/m <sup>2</sup> /mm
	1-2 x Sika® Concrete Primer, Lightly broadcast with quartz sand, 0.3 - 0.8 mm (optional)	0.2 - 0.4 kg/m <sup>2</sup> per layer 1.0 - 1.5 kg/m <sup>2</sup>
	1 x Sikalastic®-8800	~ 1.08 kg/m <sup>2</sup> /mm

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc.

<b>Substrate Quality</b>	<p>The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>.</p> <p>The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.</p> <p>If in doubt, apply a test area first.</p>
<b>Substrate Preparation</b>	<p>Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.</p> <p>Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.</p> <p>Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor<sup>®</sup>, SikaDur<sup>®</sup> and SikaGard<sup>®</sup> range of materials.</p> <p>The concrete or screed substrate has to be primed or levelled in order to achieve an even surface.</p> <p>High spots must be removed by e.g. grinding.</p> <p>All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.</p>
<b>Application Conditions / Limitations</b>	
<b>Substrate Temperature</b>	+5°C min. / +50°C max.
<b>Ambient Temperature</b>	+5°C min. / +40°C max.
<b>Relative Air Humidity</b>	85% RH max.
<b>Substrate Moisture Content</b>	<p><b>Primer Sikafloor<sup>®</sup> 156 and Sika<sup>®</sup> Concrete Primer</b>  ≤ 4% pbw moisture content.  Test method: Sika<sup>®</sup>-Tramex meter, CM - measurement or Oven-dry-method.  No rising moisture according to ASTM (Polyethylene-sheet)</p> <p><b>Primer Sikafloor<sup>®</sup> 161</b>  ≤ 6% pbw moisture content.  Test method: Sika<sup>®</sup>-Tramex meter,  ≤ 4% pbw moisture content.  Test method: CM - measurement or Oven-dry-method.  No rising moisture according to ASTM (Polyethylene-sheet)</p>
<b>Dew Point</b>	<p>Beware of condensation!</p> <p>The substrate temperature must be at least 3°C above dew point to reduce the risk of de-lamination due to condensation.</p>
<b>Application Instructions</b>	
<b>Mixing</b>	<p>Part A : Part B = 1 : 1 (by volume)</p> <p>Dose and mix with suitable air driven or electrical two-part hot spray equipment. Both components must be heated up to +70°C.  The accuracy of mixing and dosage must be controlled regularly with the equipment.</p> <p>Sikalastic<sup>®</sup>-8800 might not be diluted under any circumstances. Thoroughly stir Sikalastic<sup>®</sup>-8800 part B resin material using a drum stirrer until a homogenous mixture and colour is obtained.</p>

**Application Method / Tools**

Prior to application, confirm substrate moisture content, r.h and dew point.

*Primer:*

Prime prepared concrete with Sikafloor®-156 or Sikafloor®-161 or Sika® Concrete Primer. Primer should not just be rolled or poured. In order to avoid the formation of pinholes, the primer must be brushed into the concrete surface, if necessary in two applications. Broadcasting with quartz sand 0.3 - 0.8 mm is optional, e.g. for flooring applications where high shear resistance is required. In order to avoid the formation of blisters do not broadcast to excess.

*Waterproofing:*

Apply using a plural component, heated, high pressure, proportioning spray equipment as those manufactured by Graco® GlasCraft® Gusmer, Wiwa®, Gama, Isotherm, Reaku or any other equipment producer.

The proportioning equipment utilized must be capable of supplying correct pressure and heat for the appropriate hose length on a consistent basis.

**Cleaning of Tools**

Clean all tools and application equipment with Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically

**Waiting Time / Overcoating**

Before applying Sikalastic®-8800 on Sikafloor®-156/ Sikafloor®-161 (with broadcasting) or SikaCor® Zinc R allow:

Substrate temperature	Minimum	Maximum
+10°C	24 hours	3 days <sup>1,2)</sup>
+20°C	20 hours	48 hours <sup>1,2)</sup>
+30°C	16 hours	24 hours <sup>1,2)</sup>
+40°C	14 hours	24 hours <sup>1,2)</sup>

Before applying Sikalastic®-8800 on Sika® Concrete Primer allow:

Substrate temperature	Minimum	Maximum
+10°C	2 hours	24 hours <sup>1,2)</sup>
+20°C	30 minutes	
+30°C	30 minutes	
+40°C	30 minutes	

Before applying Sikalastic®-8800 on Sikalastic®-8800 allow:

Substrate temperature	Minimum	Maximum
+10°C	20 seconds	6 hours <sup>2)</sup>
+20°C		5 hours <sup>2)</sup>
+30°C		4 hours <sup>2)</sup>
+40°C		3 hours <sup>2)</sup>

<sup>1)</sup> Assuming that any dirt has been carefully removed and contamination is avoided.

<sup>2)</sup> If the maximum waiting time is exceeded then hand abrade the entire surface using a moderate 200 to 300 grit sandpaper. Clean the grinded surface using Sika Thinner C. For larger areas Sikalastic®-810 + 15% Thinner C must be applied as a bonding bridge.

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

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**Notes on Application / Limitations**

This product may only be used by experienced professionals.

For spray application the use of protective health & safety equipment is mandatory!

Application by using plural component, heated, high pressure, proportioning spray equipment. Temperature of the substrate during application and curing: min. -15°C.

Lightly broadcasting provides higher adhesion values and extends the maximum waiting time of primer prior to the application of Sikalastic®-8800.

Under direct UV-exposure Sikalastic®-8800 will discolour and may exhibit some chalking tendencies, but the mechanical properties are not affected. Where colour stability is required an appropriate top coat has to be applied.

Please note: Always apply a test area first.

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**Curing Details****Applied Product ready for use**

Temperature	Rain resistant after	Ready for foot <sup>1)</sup> traffic (carefully)	Ready for traffic <sup>2)</sup>
+10°C	~ 2 minutes	~ 8 minutes	~ 90 minutes
+20°C		~ 5 minutes	~ 60 minutes
+30°C		~ 4 minutes	~ 45 minutes
+40°C		~ 3 minutes	~ 30 minutes

Note:

<sup>1)</sup> Only for inspection or for application of the next layer.

<sup>2)</sup> Only for inspection, application of the next layer Not for permanent traffic.

Times are approximate and will be affected by changing ambient conditions.

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<b>Value Base</b>	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.
<b>Local Restrictions</b>	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.
<b>Health and Safety Information</b>	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 containing physical, ecological, toxicological and other safety-related data.
<b>Legal Notes</b>	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.
<b>EU Regulation 2004/42 VOC - Decopaint Directive</b>	According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type <b>sb</b> ) is 550 / 500 g/l (Limits 2007 / 2010) for the ready to use product.  The maximum content of <b>Sikalastic®-8800</b> is < 500 g/l VOC for the ready to use product.
<b>USGBC LEED Rating</b>	<b>Sikalastic®-8800</b> conforms to the requirements of LEED EQ Credit 4.2: Low -Emitting Materials: Paints & Coatings SCAQMD Method 304-91 VOC Content < 100g/l



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