

PRODUCT DATA SHEET

Sikalastic®-8410 ST HK

Polyurea Hot Spray Applied Waterproofing And Protection Membrane (formerly Sikalastic®-841ST)

DESCRIPTION

Sikalastic®-8410 ST HK is a 2- part, pure polyurea, hot spray applied, elastic, very fast curing, waterproofing and protection membrane. The fast curing allows an immediate return-to-service time and the spray application allows fast coverage of the substrate.

USES

Sikalastic®-8410 ST HK may only be used by experienced professionals.

Concrete

- Abrasion resistant protective coating in industrial and manufacturing facilities
- Waterproofing for cut and cover structures, submerged 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
- Waterproofing and wearing layer on steel bridges

CHARACTERISTICS / ADVANTAGES

- Seamless
- Very fast reactivity and curing time
- Almost immediate return-to-service time
- Fast application
- Applied by 2-Component hot spray equipment
- 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

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
- Sikalastic®-8800 is listed on the Eco-Product Directory as environmentally friendly product choice for green building initiatives. (application no.: PL-01570-2023)

APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to EN 1504-2 - Surface protection product for concrete - Coating
- Coating System DIN V 18026, Sikalastic-8800, kiwa, Report No P 9278-1-E
- Durability test ISO 13438, Sikalastic®-8800, Geoscope, Report No. 131303A
- Migration test Sikalastic®-8800, eurofins, Report No. G23435_Ver2/BJ1
- Root resistance DIN 4062, Sikalastic®-8800, kiwa, Report No. P 8395
- SIKAL LIQUID APPLIED WATERPROOFING SYSTEMS Sikalastic®-8800, BBA, Certificate No. 19/5621, Part 1, Part 2
- Crack-bridging test EN 1062-7, Sikafloor®-156 / Sikalastic®-8800, kiwa, Report No. P 8331a-E
- Liquid Plastics for Waterproofing in Buildings Part 2, Sikalastic®-8800, kiwa, Report No. P 10064-2-E
- Radon diffusion coefficient EN ISO/IEC17025, Sikalastic®-8800, CTU in Prague, Test report No. 124042/2017
- Biological Resistance EN 12225, Sikalastic®-8800, kiwa, Report No. 1.1/26341/0362.0.1.1-2016e
- Radon test ISO 11665-10, Sikalastic®-8800, IHK Bonn/Rhein-Sieg, Report No. 2016100701e

PRODUCT INFORMATION

Product Declaration	EN 1504-2: Surface protection product for concrete - Coating		
Chemical Base	Pure polyurea		
Packaging	Part A (Isocyanate)	212 kg drums ~189 litres	
	Part B (Polyamine)	191 kg drums ~189 litres	
	Refer to current price list for packaging variations.		
Shelf Life	Part A and Part B: 12 months from date of production		
Storage Conditions	The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.		
Appearance / Colour	Part A	liquid / clear	
	Part B	liquid / grey	
	Final finish colour: Standard colour: ~RAL 7012, basalt grey On request: ~RAL 7004, grey UV light exposure may lead to yellowing		
Density	Part A	~1.12 kg/l	
	Part B	~1.01 kg/l	
	Values 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)
Mechanical Resistance	0 mg	CS17/ 1000 g/ 1000 cy	(ISO 5470-1)
	1.114 mg	H22 / 1000 g / 1000 cy	
Tensile Strength	> 20 N/mm ²		(DIN 53504)
Elongation at Break	Elongation at break ~400 %		(DIN 53504)
Crack Bridging Ability	Class A5	Static	(DIN EN 1062-7)
	Class B4,2	Dynamic	(DIN EN 1062-7)
Thermal resistance	Performs in constant dry temperatures from -30 °C to +100 °C		
Permeability to Water Vapour	Sd value H ₂ O ~6.6m		(EN ISO 7783-2)
Permeability to Carbon Dioxide	Sd value CO ₂ ~201m		(EN 1062-76)
Chemical Resistance	Resistant to many chemicals. Contact Sika Technical Services for additional information.		

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B = 1 : 1 (by volume)
Consumption	~1.05 kg / m ² / mm
Layer Thickness	> 2mm
Product Temperature	> +65 °C
Ambient Air Temperature	-20 °C min. / +40 °C max.

Relative Air Humidity	< 85 %
Dew Point	Beware of condensation. The substrate and uncured applied floor material must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the floor finish.
Substrate Temperature	-20 °C min. / +50 °C max.
Curing Time	Final cure ~24 hours at +20 °C Time is approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.
Gel time	~11 seconds at + 20 °C
Waiting Time / Overcoating	1–2 minutes at +20 °C

BASIS OF PRODUCT DATA

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.

USES

- Sikalastic®-8410 ST HK may only be use by experience professionals.
- The performance and technical properties of the Sikalastic®-8410 ST HK will not affected by UV light, however prolong exposure to UV light may lead to yellowing.

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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

VOC DATA

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®-8410 ST HK is < 500 g/l VOC for the ready to use product.

APPLICATION INSTRUCTIONS

Coating System for concrete structure	Product	Consumption
Primer	1 × Sikafloor®-156	0.3-0.5 kg/m ²
Broadcast	Light broadcast with quartz sand, 0.3-0.8 mm	1.0-1.5 kg/m ²
Base Coat	1 × Sikalastic®-8410 ST HK	~1.05 kg/m ² /mm
Top Coat	1 × Sikalastic® Eau Top or 1 × Sikalastic®-701	~ 0.2 kg/m ² ~ 0.35 kg/m ²

Sikalastic 702® is able to patch repair Sikalastic 8800® and be installed at area that cannot be reached by Sikalastic® -8410 ST HK. For details please refer to Sikalastic 702® product data sheet.

MIXING

Note: Both components must be heated up to +70 °C. The accuracy of mixing and dosage must be controlled regularly with the spray equipment. Thoroughly stir part B (Amine) using a drum stirrer until a uniform consistent colour is obtained.

APPLICATION

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Prior to application, confirm substrate moisture content, relative air humidity, dew point, substrate, air and product temperatures.

Reference must be made to the Sika Method Statement: Sikalastic®-8410 ST HK.

CLEANING OF TOOLS

Clean all tools with Thinner C or Sika® Remover-208 immediately after use. The application equipment must 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 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.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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