

PRODUCT DATA SHEET

Sikalastic®-836 DW

POLYUREA SPRAY APPLIED MEMBRANE FOR DRINKING WATER INSTALLATIONS

DESCRIPTION

Sikalastic®-836 DW is a 2-part pure polyurea, hot spray applied, elastic, very fast curing, waterproofing membrane. Provides a seamless, abrasion resistant finish with crack bridging abilities which is suitable for use in drinking water installations. Thickness ≥ 2 mm.

USES

Sikalastic®-836 DW may only be used by experienced professionals.

- Internal lining for concrete drinking water tanks
- Internal lining for food stuff storage facilities
- Filtration tanks
- Sea water desalination plants

CHARACTERISTICS / ADVANTAGES

- Seamless
- 100 % solids
- Very fast setting
- Good crack bridging properties
- Good abrasion resistance
- German standards drinking water facilities tested
- Performs in constant dry temperatures from -30 °C to $+130$ °C

APPROVALS / STANDARDS

- Suitable for use in direct contact with drinking water, UBA guideline, Sikalastic®-836 DW, Hygiene-Institut, Certificate No. K-260202-15-Ko

PRODUCT INFORMATION

Chemical base	Pure polyurea		
Packaging	Part A (ISO)	205 kg, drum	
	Part B (Resin)	225 kg, drum	
Appearance / Colour	Transparent		
Shelf life	Part A (ISO)	6 months from date of production	
	Part B (Resin)	12 months months from date of production	
Storage conditions	Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between $+5$ °C and $+25$ °C. Always refer to packaging.		
Density	Part A (ISO)	$\sim 1,12\text{g/cm}^3$	(EN ISO 2811:2011)
	Part B (Resin)	$\sim 1,00\text{g/cm}^3$	
Solid content by weight	~ 100 %		

TECHNICAL INFORMATION

Shore D Hardness	~48	(EN ISO 868:2005)
Abrasion Resistance	<3000mg	H22/ 1000/ 1000 (EN 5470-1:2001)
Tensile Strength	~17 MPa	(ISO EN 527-1:2012)
Elongation at Break	~350 %	(ISO EN 527-1:2012)
Tear Strength	~100 kN/m	(ISO EN 34-1:2010)

APPLICATION INFORMATION

Mixing ratio	Part A (ISO) : Part B (Resin) = 1 : 1 by volume
Consumption	~1,1 kg/m ² /mm
Layer Thickness	min. 2 mm
Product Temperature	Part A (ISO) > 70 °C Part B (Resin) < 70 °C
Ambient Air Temperature	-20 °C min. / +40 °C max.
Relative Air Humidity	< 85 %
Dew Point	Beware of condensation. The substrate and uncured coating finish must be at least 3 °C above dew point to reduce the risk of condensation.
Substrate Temperature	-15 °C min. / +70 °C
Curing time	24 hours at +20 °C full cure
Gel time	4–6 seconds

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Cementitious substrates (concrete) must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum tensile strength of 1,5 N/mm².

Substrates must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.

SUBSTRATE PREPARATION

Cementitious substrates must be prepared mechanically using suitable abrasive blast/water jetting cleaning equipment to remove cement laitance and achieve an open textured surface profile suitable for the product thickness.

Weak cementitious substrates must be removed and surface defects such as blow holes and voids must be fully exposed.

Repairs to the substrate, filling of cracks, blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials. Products must be cured before applying Sikalastic®-836 DW. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by vacuum extraction equipment.

MIXING

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 (Resin) using a drum stirrer until a consistent colour is obtained.

APPLICATION

Sikalastic®-836 DW is spray applied in a continuous operation to achieve a consistent thickness and surface finish.

CLEANING OF TOOLS

Clean all tools with Thinner C immediately after use. Spray equipment has to be cleaned and filled with Mesamoll. Hardened material can only be removed mechanically.

IMPORTANT CONSIDERATION

- For spray application the use of protective health and safety equipment is mandatory.
- Application by using 2-component hot spray equipment.
- Under UV and weathering colour will change.
- Freshly applied Sikalastic®-836 DW must be protected from damp, condensation and liquid water for at least 30 minutes.
- The incorrect assessment of cracks may lead to re-

duced service life time and reflective cracking.

- If, during application, heating is required do not use gas, oil, paraffin or other fossil fuel heaters. These produce a large quantity of CO₂ and H₂O water vapour which may adversely affect the finish. For heating use only electric powered warm air blower systems.
- Do not apply Sikalastic®-836 DW on substrates with rising moisture.

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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/CE, the maximum allowed content of VOC (product category IIA / j type sb) is 500 g/l (Limits 2010) for the ready to use product.

The maximum content of Sikalastic®-836 DW 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.

Sika Limited (Vietnam)

Nhon Trach 1 Industrial Zone,
Nhon Trach Dist., Dong Nai Province,
Tel: (84-251) 3560 700
Fax: (84-251) 3560 699
sikavietnam@vn.sika.com
vnm.sika.com



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