

## PRODUCT DATA SHEET

## Sikalastic®-871 JW

Liquid applied pure polyurea membrane

## DESCRIPTION

Sikalastic®-871 JW is a two part, hot-sprayed, elastic, 100 % solids, very fast curing and coloured pure polyurea liquid applied membrane for the use in potable water installations, reservoirs and fish ponds.

## USES

Sikalastic®-871 JW may only be used by experienced professionals.

The Product is used as a:

- Waterproof coating on concrete and cementitious screeds substrates

The Product is used as a waterproofing membrane for:

- Water supply facilities
- Potable water tanks
- Ponds

## CHARACTERISTICS / ADVANTAGES

- Very fast reactivity and curing time
- Impermeable to liquids
- Good crack-bridging ability

## APPROVALS / STANDARDS

- Certificate of drinking water compatibility, SPAN, No. SPAN/BPAI/5124-2023

## PRODUCT INFORMATION

Chemical base	Pure polyurea	
Packaging	Part A (Isocyanate)	200 kg drums (net)
	Part B (Polyamine)	175 kg drums (net)
	Part C (Pigment)	15 kg can (net)
	Refer to the current price list for available packaging variations.	
Appearance / Colour	Part A	Clear – light yellowish liquid
	Part B	Medium brown liquid
	Part C	Toner blue liquid
Shelf life	Part A	12 months from date of production
	Part B	12 months from date of production
	Part C	12 months from date of production
Storage conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Protect the Product from direct sunlight. Always refer to packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.	

Density	Part A	~1.05 kg/l	(EN ISO 2811-1)
	Part B	~1.00 kg/l	
	Part C	~2.10 kg/l	

Solid content by weight	~99 %
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## TECHNICAL INFORMATION

Shore A Hardness	≥ 42	Test report: CERI No.272-23-A-1794	(JIS K6253)
Resistance to Impact	No cracks or peels		(JIS A 6916, 6.11)
Tensile Strength	≥ 25 N/mm <sup>2</sup>	Test report: CERI No.272-23-A-1794	(JIS K6251)
Elongation at Break	≥ 250%	Test report: CERI No.272-23-A-1794	(JIS K6251)
Tear Strength	≥ 75 N/mm	Test report: CERI No.272-23-A-1794	(JIS K6252)
Resistance to Alkalinity	No bulges, cracks or peels		(JIS K 5400, 8.21)
CHEMICAL RESISTANCE	Sikalastic®-871 JW is resistant to all kinds of fresh water and the cleaning		
Permeability to Water Vapour	0.0 g		(JIS A 1404)
Chloride Ion Diffusion Resistance	< 3.4 x 10 <sup>-4</sup>		(JIS K 5400, 8.18)

## APPLICATION INFORMATION

Mixing ratio	Part A : (Part B + Part C)	1 : 1
Consumption	~1.10 kg / m <sup>2</sup> per mm	
Product Temperature	Part A	+67 °C
	Part B + Part C	+53 °C
Ambient Air Temperature	Maximum	+40 °C
	Minimum	-5 °C
Relative Air Humidity	Maximum	< 85 %
Dew Point	Beware of condensation. The substrate and uncured applied product must be at least +3 °C above dew point to reduce the risk of condensation on the surface of the applied product.	
Substrate Temperature	Maximum	+50 °C
	Minimum	+0 °C
Curing time	24 hours at +20 °C	
Waiting Time / Overcoating	Waiting time at +23 °C	Minimum 10 seconds
	Overcoating time at +23 °C	Up to 8 hours

## 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.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and con-

tains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### EQUIPMENT

#### MIXING EQUIPMENT

- Drum stirrer

#### APPLICATION EQUIPMENT

- Air driven or electrical 2-component hot spray-equipment

### SUBSTRATE QUALITY

Cementitious substrates must be structurally sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum tensile strength of 1.5 N/mm<sup>2</sup>.

Substrates must be clean, dry and free of contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

### MIXING

#### IMPORTANT

Do not dilute with solvent or water.

1. Pour all the container of Part C into the drum of Part B
2. Thoroughly stir the single drum of coloured resin using a drum stirrer to obtain a uniform colour.
3. Heat all three parts: **Part A** +67 °C : **Part B + Part C** +53°C.
4. Dose and mix with the spray equipment making sure constant air pressure is maintained.
5. Regularly check and control the accuracy of the mixing and dosage. The proportioning equipment must be capable of consistently supplying the correct pressure and heat.

## APPLICATION

### IMPORTANT

#### Ventilation in confined spaces

Always ensure good ventilation when applying the Product in a confined space.

### IMPORTANT

#### No application on unprimed or unlevelled substrates

Only apply the Product on primed or levelled concrete and screed surfaces.

### IMPORTANT

#### No application on rising moisture

Do not apply on substrates with rising moisture.

### IMPORTANT

#### No application on out-gassing substrates

Important: Do not apply on porous surfaces where significant moisture vapour transmission (out-gassing) will occur during application.

The Product is applied with specific temperatures for each component. If the application equipment only has a single fixed temperature setting use +70 °C and conduct application trials before undertaking the full application.

1. Apply the Product using air driven or electrical 2-component hot spray equipment.

### CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Thinner C immediately after use. The application equipment must be 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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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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#### Product Data Sheet

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