

PRODUCT DATA SHEET

Sikalastic®-701 SF

2-part polyaspartic top coat for liquid applied membrane roof waterproofing systems

DESCRIPTION

Sikalastic®-701 SF is a 2-part, high performance, polyaspartic top coat for low odour Sika® Liquid Applied Membrane roof waterproofing systems. It contains 100 % solids and is part of the SikaRoof PUR two component solvent free polyurea systems.

USES

Sikalastic®-701 SF may only be used by experienced professionals.

The Product is used as a UV resistant top coat for:

- Sikalastic®-702

The Product is used for the following waterproofing applications:

- Newly applied or renovating existing membranes
- Flat and sloped roofs
- Walkways
- Terraces

Please note:

- The Product may only be used for exterior applications.

CHARACTERISTICS / ADVANTAGES

- Good yellowing resistance provides long term colour stability
- Very good resistance to weathering
- Good gloss retention
- Good resistance to specific chemicals
- Low surface soiling
- Easy to clean and low maintenance
- Very low odour
- Very good solar reflectance making it suitable for cool roofs
- Resistant to ponding water

PRODUCT INFORMATION

Chemical Base	Polyaspartic resin	
Packaging	Part A	4.46 kg container
	Part B	2.09 kg container
	Part A+B	6.55 kg ready to mix unit
	Refer to the current price list for available packaging variations.	
Shelf Life	Part A	24 months from date of production
	Part B	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. Always refer to packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.		
Colour	<u>Cured colour</u>	<u>White, terracotta</u>	
Density	<u>Mixed resin at +23 °C</u>	<u>1.45 kg/l</u>	(EN ISO 2811-1)
Solid Content by Weight	<u>Part A</u>	<u>100 %</u>	
	<u>Part B</u>	<u>100 %</u>	
Solid Content by Volume	<u>Part A</u>	<u>100 %</u>	
	<u>Part B</u>	<u>100 %</u>	

TECHNICAL INFORMATION

Tensile Strength	<u>Tested at +23 °C</u>	<u>15 MPa</u>	(EN ISO 527-3)
Elongation at Break	<u>Tested at +23 °C</u>	<u>140 %</u>	(EN ISO 527-3)
Solar Reflectance	<u>Initial</u>	<u>0.87</u>	(ASTM C1549)
Thermal Emittance	<u>Initial</u>	<u>0.90</u>	(ASTM C1371)
Solar Reflectance Index	<u>Initial (Convective coefficient, medium wind)</u>	<u>111</u>	(ASTM E1980)
Chemical Resistance	Resistant to many chemicals. Contact Sika Technical Service for additional information.		
External Fire Performance	<u>B_{roof} (T1) B_{roof} (T4)</u>		(CEN/TS 1187)

SYSTEM INFORMATION

System Structure	The Product can be used with the following 2-part aromatic PU/PUA cold applied systems: ▪ Sikalastic®-702
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APPLICATION INFORMATION

Mixing Ratio	<u>Part A : Part B by weight</u>	<u>2.1 : 1</u>	
Consumption	0.30 kg/m ² applied in a single coat		
Product Temperature	<u>Maximum</u>	<u>+40 °C</u>	
	<u>Minimum</u>	<u>+5 °C</u>	
Ambient Air Temperature	<u>Maximum</u>	<u>+40 °C</u>	
	<u>Minimum</u>	<u>+5 °C</u>	
Relative Air Humidity	Temperature	Minimum	Maximum
	<u>Above +20 °C</u>	<u>35 %</u>	<u>80 %</u>
	<u>Below +20 °C</u>	<u>45 %</u>	<u>80 %</u>
Dew Point	Beware of condensation. The substrate and uncured applied membrane must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the membrane finish.		

Substrate Temperature	Maximum	+40 °C		
	Minimum	+5 °C		
Substrate Moisture Content	Refer to the individual Product Data Sheet.			
Pot Life	Tested at +20 °C	30 minutes		
	Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.			
Tack Free Time	Tack free time (tested at +20 °C and 50 % RH)	90 minutes		
	Hard drying time (tested at +20 °C and 50 % RH)	120 minutes		
	Final drying time (tested at +20 °C and 50 % RH)	180 minutes		
	Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.			
Waiting Time / Overcoating	Curing conditions		Overcoating time	
	+10 °C and 50 % RH		180 minutes	
	+20 °C and 50 % RH		180 minutes	
	+30 °C and 50 % RH		120 minutes	
Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.				
Applied Product Ready for Use	Curing conditions	Rain resistant	Foot traffic	Full cure
	+10 °C and 50 % RH	75 minutes	180 minutes	1 day
	+20 °C and 50 % RH	60 minutes	180 minutes	1 day
	+30 °C and 50 % RH	45 minutes	120 minutes	16 hours
	Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.			

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

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.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Preconditions

Confirm waiting time to overcoating has been achieved for the previously applied system base layer.

1. If the maximum overcoating time of the base layer is exceeded, prepare the surface of the existing coating using mechanical grinding equipment.
2. Remove dust and contamination from the prepared surface using vacuum extraction equipment.

MIXING

IMPORTANT

Do not dilute with solvent or water.

TOP COAT MIXING PROCEDURE

1. Mix Part A (resin) until the coloured pigment is dispersed and a uniform colour is achieved.
2. Add Part B (hardener) to Part A.
3. **IMPORTANT** Do not mix excessively. Mix Part A + B continuously for ~3 minutes until a uniformly coloured mix is achieved.
4. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
5. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing.

APPLICATION

IMPORTANT

Application by trained personnel

The application of this Product must only be carried out by an applicator that is trained or approved by Sika. The applicator must also be experienced in this type of application.

IMPORTANT

Risk of fumes entering air conditioning units

Do not apply close to running air conditioning unit intake vents. Switch off units and seal intakes before applying.

1. Apply the Product in one coat by roller, brush or spray equipment to achieve a consistent thickness and required surface finish.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. 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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