BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic®-701

Hybrid, elastic polyurethane top coat for liquid-applied membrane waterproofing systems

PRODUCT DESCRIPTION

Sikalastic®-701 is a 2-part, hybrid, gloss-finish polyurethane top coat for Sika® Liquid Applied Membrane waterproofing systems.

USES

Sikalastic®-701 is used as a gloss-finish top coat for:
- Sika® Liquid Applied Membrane systems
- Sika® 2-C spray applied PU/PUA systems

Sikalastic®-701 is used for the following waterproofing applications:
- Newly applied membranes or for renovating existing membranes
- Flat and sloped roofs
- Walkways
- Terraces
- Podium decks

Please note:
- The Product may only be used by experienced professionals.
- 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 good solar reflectance making it suitable for cool roofs
- Resistant to ponding water

APPROVALS / STANDARDS

- Fire Testing EN 13501-5, Sikalastic®-612, BRE, Report No.Q100536-1001
- Fire Testing EN 13501-5, Sikalastic®-614, BRE, Report No.Q100536-1003
- Fire Testing EN 13501-5, Sikalastic®-701, Sikalastic®-702, warringtonfire, Repor
- Abrasion resistance AR0.5(Special), Sikalastic®-614/701, FACE, Test report No. F
- Abrasion resistance AR0.5(Special), Sikalastic®-701, Sikalastic®-702, FACE, Test
- CE marking and declaration of performance based on European Technical Assessment ETA-20/1013. ETA issued on the basis of EAD 030350-00-0402 Liquid applied roof waterproofing kits.

PRODUCT INFORMATION

Chemical Base	Aliphatic polyurethane hybrid	
Packaging	Container Part A	10 kg
	Container Part B	2.5 kg
	Container Part A + Part B	12.5 kg
	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	Cured colour	White	
Density	Mixed Product	1.25 kg/l	(EN ISO 2811-1)
	For colours other than white, light grey and dark grey, values may vary. Contact Sika Technical Services for further advice.		
Solid content by mass	Part A	67 %	
	Part B	100 %	
	For colours other than white, light grey and dark grey, values may vary. Contact Sika Technical Services for further advice.		
Solid content by volume	Part A	55 %	
	Part B	100 %	
	For colours other than white, light grey and dark grey, values may vary. Contact Sika Technical Services for further advice.		

TECHNICAL INFORMATION

Tensile Strength	Tested at +23 °C	10 MPa	(EN ISO 527-3)
	Tested at -20 °C	20 MPa	
Elongation at Break	Tested at +23 °C	100 %	(EN ISO 527-3)
	Tested at -20 °C	20 %	
Solar Reflectance	Initial	0.88	(ASTM C1549)
Thermal Emittance	Initial	0.86	(ASTM C1371-15)
Solar Reflectance Index	Initial (Convective coefficient, medium wind)	112	(ASTM E1980)

Chemical Resistance	Resistant to many chemicals. Contact Sika Technical Services for specific information.	
External Fire Performance	B_{roof} (T1) B_{roof} (T4)	(CEN/TS 1187)
Reaction to Fire	Class E	(EN 13501-1)

SYSTEM INFORMATION

System Structure

Sikalastic®-701 can be used with the following:
1-Part PU cold applied systems
- Sikalastic®-612
- Sikalastic®-614
- Sikalastic®-625 N

2-Part Aromatic PU or PUA cold applied systems
- Sikalastic®-702

2-Part PU or PUA hot spray applied systems
- Sikalastic®-851 R
- Sikalastic®-859 R ME
- Sikalastic®-835 I

Refer to the following System Data Sheets:
- SikaRoof® PUR
- SikaRoof® MTC

APPLICATION INFORMATION

Mixing Ratio

Part A : Part B (by volume)	80 : 20

Consumption

0.25–0.35 kg/m² applied in a single coat
For colours other than white, light grey and dark grey, values may vary. Contact Sika Technical Services for further advice.

Product Temperature

Maximum	+40 °C
Minimum	+2 °C

Ambient Air Temperature

Maximum	+40 °C
Minimum	+2 °C

Relative Air Humidity

Temperature	Minimum	Maximum
Above +20 °C	35 %	80 %
Below +20 °C	45 %	80 %

Dew Point

Beware of condensation. Substrate temperature during application must be at least +3 °C above dew point.

Substrate Temperature

Maximum	+40 °C
Minimum	+2 °C

Substrate Moisture Content

Refer to the individual Product Data Sheet.

Pot Life

+20 °C	1 hour

Tack Free Time

Tested at +20 °C and 50 % RH:

Tack free time	45 minutes
Hard drying time	60 minutes
Final drying time	90 minutes

Tested at +5 °C and 50 % RH:

Tack free time	75 minutes
Hard drying time	105 minutes
Final drying time	135 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	150 minutes	1 day
+20 °C and 50 % RH	60 minutes	120 minutes	1 day
+30 °C and 50 % RH	45 minutes	90 minutes	16 hours

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

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

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. Note Depending on the type of base layer, a solvent wipe may also be required. Contact Sika Technical Services for advice.
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

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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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