BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic®-701

Polyurethane hybrid top coat for liquid-applied membrane waterproofing systems

PRODUCT DESCRIPTION

Sikalastic®-701 is a two-part, polyurethane hybrid top coat with a gloss finish. It is designed for use with Sika® Liquid Applied Membrane waterproofing systems.

USES

Used as a top coat in:
- Sika Pro-Tecta metal roof waterproofing systems
- Applications in conjunction with Sikalastic®-625 N
- Application in conjuction with Sikalastic®-851R, Sikalastic®-702 and other approved Sika products that may require a UV when installed in exposed scenarios

CHARACTERISTICS / ADVANTAGES

- Aliphatic polyurethane formulation with UV and yellowing resistance (see test data)
- Tested for long-term weathering performance
- Colour stability and gloss retention verified through accelerated ageing tests
- Chemical resistance supported by technical data
- Contributes to cool roof design via high Solar Reflective Index (SRI) – see SRI data
- Suitable for areas subject to ponding water (refer to performance data)

APPROVALS / STANDARDS

- BBA Certificate No. 16/5294
- European Technical Assessment No. ETA-20/1013
- Classified BROOF(t4) to BS EN 13501-5 (specific system build-ups)
- CE marked in accordance with EAD 030350-00-0402
- Declaration of Performance No. 67409260

PRODUCT INFORMATION

Chemical Base	Elastomeric Polyurethane/Hybrid	
Packaging	Part A	10,0 kg container
	Part B	2,5 kg container
	Part A + B	12,5 kg ready to mix unit
	Refer to current price list for packaging variations	
Colour	Final colour	White/Light Grey
	The product can be coloured locally with Sika® In Pail Tinting (IPT) ma-	

chines. For more information, consult the local Sika customer service.

Shelf Life

Shelf Life	
Part A:	24 Months from date of production
Part B:	12 Months from date of production

Storage Conditions

Store properly in original, unopened and undamaged packaging, in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.

Density

~1,25 kg/l (mixed A+B) (DIN EN ISO 2811-11)

Value at +23 °C

Solid content by mass

Part A	~67 %
Part B	~100 %

Solid content by volume

Part A	~55 %
Part B	~100 %

TECHNICAL INFORMATION

Tensile Strength (EN ISO 527-3)

Temperature	Value
+23 °C	~10 MPa
-20 °C	~20 MPa

Elongation at Break (EN ISO 527-3)

Temperature	Value
+23 °C	~100 %
-20 °C	~20 %

External Fire Performance

Broof T1 / Broof T4 (prEN 1187)

Reaction to Fire

Euroclass E (EN 13501-1)

Chemical Resistance

Resistant to many chemicals. Contact Sika Technical Service for additional information.

Solar Reflectance

Initial Solar Reflectance	0,88	(ASTM C1549)

Thermal Emittance

Initial Thermal Emittance	0,86	(ASTM C1371)

Solar Reflectance Index

Initial SRI (Convective Coefficient, Medium Wind)	~112

APPLICATION INFORMATION

Mixing Ratio

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

Yield

~0,25 kg/m² to 0,30 kg/m² applied in a single coat

Ambient Air Temperature

+2 °C min. / +40 °C max.

Relative Air Humidity

Above +20 °C	35 % min / 80 % max.
Below +20 °C	45 % min. / 80 % max.

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

+2 °C min. / +40 °C max.

Substrate Moisture Content

Refer to Product Data Sheet of the appropriate base layers

Pot Life

1 hour at +20 °C

Pot life will decrease at higher temperatures and increase at lower temperatures.

Tack Free Time

Condition	Property	Value	(EN 29117:1992)
20 °C / 50 % RH	Tack free time	~45 minutes	
20 °C / 50 % RH	Hard drying time	~60 minutes	
20 °C / 50 % RH	Final drying time	~90 minutes	

Condition	Property	Value	(EN 29117:1992)
5 °C / 50 % RH	Tack free time	~75 minutes	
5 °C / 50 % RH	Hard drying time	~105 minutes	
5 °C / 50 % RH	Final drying time	~135 minutes	

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

Applied Product Ready for Use

Temperature	Relative Humidity	Rain Resistant	Foot Traffic	Full Cure
+10 °C	50 %	~75 minutes	~150 minutes	~1 day
+20 °C	50 %	~60 minutes	~120 minutes	~1 day
+30 °C	50 %	~45 minutes	~90 minutes	~16 hours

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

SYSTEM INFORMATION

System Structure

Sikalastic®-701 can be used with the following system:

Layer	Product	Consumption
Localised Reinforcement	Sika Joint Tape SA®	Refer to Application Guide
Primer	Refer to "Substrate Pre-Treatment"	Refer to PDS of the respective primer
First Coat	Sikalastic®-625 N	0.75 L/m²
Second Coat	Sikalastic®-701	0.4 L/m²

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.

FURTHER DOCUMENTS

- Sika Method Statement: SikaRoof® PU-20 iCure

LIMITATIONS

Installation work must only be carried out by Sika® trained and approved contractors, experienced in this type of application.

- Products must only be applied in accordance with their intended use.
- Do not use for indoor applications.
- Do not apply near to running air intakes of air conditioning units. Switch off units before applying.
- Do not dilute with any solvent or water.

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

Confirm waiting /overcoating time has been achieved on the previously applied system base layer. The base layer must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and loose material. If dust exists on the surface, it must be completely removed before application of the product, preferably by vacuum extraction equipment.
If the maximum overcoating time of the base layer is exceeded, the surface must be lightly abraded using light abrasive manual tools or mechanical equipment to roughen the surface. Depending on the type of base layer, a solvent wipe may also be required. Finally, completely remove all the dust by vacuum extraction equipment.

MIXING

Prior to mixing all parts, mix separately Part A (resin) using an electric single or double paddle mixer and stirrer (300 to 400 rpm) or other suitable equipment. Mix liquid and all the coloured pigment until a uniform colour / mix has been achieved. Add Part B (hardener) to Part A and mix Part A + B continuously for 3,0 minutes until a uniformly coloured mix has been achieved. Mix full units only. Mixing time for A+B = ~3,0 minutes.

APPLICATION

Apply mixed product in 1 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 or with a proprietary paint stripper.

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.

SIKA IRELAND LIMITED
Ballymun Industrial Estate
Ballymun
Dublin 11, Ireland
Tel: +353 1 862 0709
Web: www.sika.ie
Twitter: @SikaIreland