BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic®-701

Polyurethane hybrid elastic top coat for liquid applied membrane waterproofing systems

PRODUCT DESCRIPTION

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

USES

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

A gloss finish top coat for:
- Sika® Liquid Applied Membrane systems
- Sika® 2-C spray applied PU/PUA systems

For the following waterproofing system applications:
- Newly applied or renovating existing membranes
- Flat and pitched roof structures
- Communal walkways
- Podium decks
- Terrace roofs
- For exterior use only

CHARACTERISTICS / ADVANTAGES

- Aliphatic polyurethane providing UV and yellowing resistance
- Good long term weathering performance
- Good colour stability and gloss retention
- Good chemical resistance
- Low soiling and easily cleanable
- Suitable for cool roofs by providing a high Solar Reflective Index
- Resistant to ponding water

APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to European Technical Assessment ETA-20/0248, based on ETAG 005 Part 1 and Part 6 — Liquid applied roof waterproofing kits. Part 1: General. Part 6: Specific stipulations for Kits based on Polyurethane
- Fire Testing EN 13501-1, Sikalastic®-701, Sikalastic®-702, warringtonfire, Report No.19896B
- Fire Testing EN 13501-5, Sikalastic®-612, BRE, Report No.Q100536-1001
- Fire Testing EN 13501-5, Sikalastic®-614, BRE, Report No.Q100536-1003
- Abrasion resistance AR0.5(Special), Sikalastic®-614/701, FACE, Test report No. FC/18/8048
- Abrasion resistance AR0.5(Special), Sikalastic®-701, Sikalastic®-702, FACE, Test report No. FC/18/8048

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/Pale Grey	
	The product can be coloured locally with Sika® In Pail Tinting (IPT) machines. For more information, consult the local Sika customer service.		
Shelf Life	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) Value at +23 °C		(DIN EN ISO 2811-11)
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	

SYSTEM INFORMATION

System Structure

Sikalastic®-701 can be used with the following:

1-Part PU cold applied Systems
- Sikalastic®-612
- Sikalastic®-614
- Sikalastic®-618
- Sikalastic®-625N
- SikaRoof PU-20 iCure

2-Part Aromatic PU/PUA cold applied Systems
- Sikalastic®-702

2-Part PU/PUA hot spray applied Systems
- Sikalastic®-851 R
- Sikalastic®-838 R
- Sikalastic®-835 I

Refer to the following System Data Sheets:
- SikaRoof® PUR
- SikaRoof® MTC
- SikaRoof® PUA Roof Waterproofing Systems

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.
Substrate Temperature	+2 °C min. / +40 °C 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 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.

VALUE BASE

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.

FURTHER DOCUMENTS

- Sika Method Statement: Sikalastic®-834 R

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

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.

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

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.

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