

PRODUCT DATA SHEET

Sikalastic®-702

Elastic polyurea hybrid liquid applied membrane for roof waterproofing



DESCRIPTION

Sikalastic®-702 is a 2-part, elastic, polyurea based liquid applied roof waterproofing membrane. It is part of the SikaRoof® PUR liquid applied roofing solutions range of products. Suitable for use in hot and tropical climatic conditions.

USES

Sikalastic®-702 may only be used by experienced professionals. Designed for the following roof waterproofing applications:

- Flat fully exposed roof structures
- New construction and refurbishment projects
- Roofs with numerous details such as penetrations, drains, roof lights and complex geometry
- Balcony and terrace decks underneath a protective layer (i.e. ballast, paving slabs, tiles)
- Alternative option for small projects where application machinery is not practical

CHARACTERISTICS / ADVANTAGES

- Cold applied - requires no heat or flame
- One layer application
- High elasticity and elongation at break
- No reinforcement required
- Self-smoothing
- Applied by notched rubber or metal squeegees
- Good adhesion to many substrates with the appropriate primers
- Can be covered with an aliphatic top coat
- Resistant to ponding water

APPROVALS / CERTIFICATES

- Root resistance DIN CEN/TS 14416, Sikalastic®-702, kiwa, Test report No. 0078.0.1-2019e
- CE Marking and Declaration of Performance to ETAG 005-1-6:2004, Liquid-applied roof waterproofing using kits based on polyurethane
- Fire Testing EN 13501-5, Sikalastic®-701, warrington-fire, Report No. 19895B, 19895C
- Fire Testing EN 13501-1, Sikalastic®-701 warrington-fire, Report No.19896B

PRODUCT INFORMATION

Composition	Elastomeric Aromatic PUA hybrid
Packaging	Parts A+B: 20,1 L (25 kg)
	Part A 4,7 L (9,2 kg)
	Part B 15,5 L (15,8 kg)
	Refer to current price list for packaging variations
Colour	Dark grey When product is exposed to direct sunlight (UV), there may be some discolouration. Additional UV protection can be achieved by application of a topcoat: Sikalastic®-701. This must be applied within 7 days over Sikalastic®-702

otherwise the performance may be affected.

Shelf life	12 months from date of production		
Storage conditions	Product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.		
Density	~1,24 kg/L (Mixed A+B)		(DIN EN ISO 2811-11)
Solid content by mass	~100 % (Part A & B)		
Solid content by volume	~100 % (Part A & B)		
Volatile organic compound (VOC) content	~0,07 g/L		
Overall thickness	Application	System	Thickness
	Buried under tiles, concealed roofs	SikaRoof® PUR-10	~1,5 mm
	Exposed roofs, Economical system	SikaRoof® PUR-15	~1,8 mm
	Exposed roofs, Advanced system	SikaRoof® PUR-18	~2,3 mm
Refer to the System Data Sheet: SikaRoof® PUR Systems			

TECHNICAL INFORMATION

Shore A hardness	~75	(ISO 7619)
Tensile strength	~10,0 N/mm ²	(DIN EN ISO 527-3)
Tensile strain at break	~900 %	(DIN EN ISO 527-3)
Tensile adhesion strength	~2,5 N/mm ² Value measured using Sika® Concrete Primer LO	(DIN EN ISO 4624)
Tear strength	~13,8 N/mm ²	(ISO 6383-2)
Resistance to root penetration	Root resistant	(DIN CEN/TS 14416)
External fire performance	B _{roof} T1 / B _{roof} T4	(ENV 1187)
Reaction to fire	Euroclass E	(EN 13501-1)
Chemical resistance	Resistant to many chemical based cleaners. Contact Sika Technical Services for additional information.	

SYSTEM INFORMATION

System structure	System <ul style="list-style-type: none">▪ Sikalastic®-702▪ Refer to the System Data Sheet: SikaRoof® PUR Systems▪ Primers
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Substrate	Primer
Cementitious substrates	Sika® Concrete Primer LO, Sika® Concrete Primer or Sikafloor®-161/-151 lightly broadcasted with quartz sand, 0.3–0.8 mm
Ceramic tiles (unglazed), and concrete slabs	Sika® Concrete Primer LO / Sika® Concrete Primer
Bituminous felt	Sikalastic® Metal Primer
Bituminous coatings	Sikalastic® Metal Primer
Metals & Ferrous or galvanised metals, lead, copper, aluminium, brass or stainless steel	Sikalastic® Metal Primer

For the primer consumption rates and waiting time / overcoating, refer to the appropriate Product Data Sheet.

Other substrates must be tested for their compatibility. If in doubt, apply a test area first.

Dry film thickness	Refer to the System Data Sheet: SikaRoof® PUR Systems
System performance	Refer to the System Data Sheet: SikaRoof® PUR Systems

APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 1 : 1,72 (by weight)				
Product temperature	+10 °C min. / +25 °C max.				
Ambient air temperature	+2 °C min. / +40 °C max.				
Relative air humidity	35 % 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	≤ 4 % parts by weight. The following test methods can be used: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).				
Pot Life	~25 minutes at +20 °C Pot life will decrease at higher temperatures and increase at lower temperatures.				
Applied product ready for use	Temperature	Relative Humidity	Rain Resistant	Foot Traffic/Overcoating	Full Cure
	+10 °C	~50 %	~3 hours	~10 hours	~28 hours
	+20 °C	~50 %	~2 hours	~6 hours	~24 hours
	+30 °C	~50 %	~1 hour	~4 hours	~20 hours

BASIS OF PRODUCT DATA

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 INFORMATION

- Sika Method Statement: SikaRoof® PUR roof waterproofing systems

IMPORTANT CONSIDERATIONS

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 apply on substrates with rising moisture.
- On substrates likely to exhibit outgassing, apply during falling ambient and substrate temperature. If applied during rising temperatures “pin holing” may occur from rising vapour. Sikalastic® Primer may assist

- with reducing or eliminating this effect.
- Do not dilute with any solvent or water.

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

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

- The supporting structure must be of sufficient structural strength to apply all new and existing layers of the roof build-up. Complete roof system must be designed and secured against wind uplift loadings.
- Refer to the Sika Method Statement: SikaRoof® PUR roof waterproofing systems
- Suitable substrates: Concrete, bituminous felts and coatings, metal, brickwork, asbestos cement, ceramic tiles.

MIXING

Refer to the Sika Method Statement: SikaRoof® PUR roof waterproofing systems

APPLICATION

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Refer to the Sika Method Statement: SikaRoof® PUR roof waterproofing systems

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Thinner C or similar, 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 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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ISO 9001: Sika UAE LLC,
Sika Gulf B.S.C. (c),
Sika Saudi Arabia Co. Ltd,
Sika Qatar LLC
ISO 14001: Sika UAE LLC,
Sika Gulf B.S.C. (c),
Sika Saudi Arabia Co. Ltd
OHSAS: Sika UAE LLC,
Sika Gulf B.S.C. (c)

All products are supplied
under a management
system certified to conform
to the requirements of the
quality, environmental and
occupational health &
safety standards ISO 9001,
ISO 14001 and OHSAS
18001.

Product Data Sheet

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