BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic®-702

Elastic polyurea hybrid liquid applied membrane for roof waterproofing

DESCRIPTION

Sikalastic®-702 is a 2-part, elastic, hybrid polyurea based liquid applied roof waterproofing membrane. It is part of the SikaRoof® PUR liquid applied roofing solutions range of products.

USES

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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 / STANDARDS

- 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, warringtonfire, Report No. 19895B, 19895C
- Fire Testing EN 13501-1, Sikalastic®-701 warringtonfire, Report No.19896B

PRODUCT INFORMATION

Chemical Base	Elastomeric PU/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	
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.	

Colour	Light 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/Sikalastic®-701 SF. This must be applied within 7 days over Sikalastic®-702 otherwise the performance may be affected.
Density	~1.24 kg/L (Mixed A+B)
Solid Content by Weight	~100 % (Part A & B)
Solid Content by Volume	~100 % (Part A & B)
Volatile Organic Compound (VOC) Content	~0.07 g/L

TECHNICAL INFORMATION

Shore A Hardness	~75	
Resistance to Root Penetration	Root resistant	
Tensile Strength	~10.0 N/mm²	
Elongation at Break	~900 %	
Tensile Adhesion Strength	~2.5 N/mm² Value measured using Sika® Concrete Primer LO	
Tear Strength	~13.8 N/mm²	
Chemical Resistance	Resistant to many chemical based cleaners. Contact Sika Technical Services for additional information.	
External Fire Performance	B_{roof} T1 / B_{roof} T4	(ENV 1187)
Reaction to Fire	Euroclass E	(EN 13501-1)

SYSTEM INFORMATION

System Structure

System

- Sikalastic®-702
- Refer to the System Data Sheet: SikaRoof® PUR Systems
- Primers

Substrate	Primer
Cementitious substrates	Sika® Concrete Primer LO or Sikafloor®-161 lightly broadcast with quartz sand, 0.3–0.8 mm
Ceramic tiles (unglazed), and concrete slabs	Sika® Concrete Primer LO
Bituminous felt	Sikalastic® Metal Primer N
Bituminous coatings	Sikalastic® Metal Primer N
Metals & Ferrous or galvanised metals, lead, copper, aluminium, brass or stainless steel	Sikalastic® Metal Primer N

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 % r.h. min / 80 % r.h. 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	The product can be applied on substrates with a moisture content of ≤ 4 % part by weight. The substrate must be visibly dry with no standing water. The following test methods can be used to determine the substrate moisture content: ▪ Sika®-Tramex meter ▪ CM-measurement ▪ 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 Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTS

- Sika Method Statement: SikaRoof® PUR roof waterproofing systems

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 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.

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

- 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 TOOLS

Clean all tools and application equipment with Thinner C or similar, 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

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