

PRODUCT DATA SHEET

Sikalastic®-709

Polyurea hybrid liquid applied membrane for roof waterproofing

DESCRIPTION

Sikalastic®-709 is a 2-part, polyurea hybrid, solvent-based, highly elastic, liquid applied membrane for roof waterproofing.

USES

Sikalastic®-709 may only be used by experienced professionals.

For the following waterproofing applications:

- Flat and sloping fully exposed roof structures
- New construction and refurbishment projects
- Other non-trafficked concrete areas
- Alternative option for small projects where Sikalastic® Hot Spray systems are not practical
- Interior and exterior use

CHARACTERISTICS / ADVANTAGES

- Seamless finish
- Can be applied in 1 layer
- High elasticity and elongation at break
- Fast curing
- Cold applied by trowel or roller
- Can be coated with an aliphatic UV resistant top coat
- Resistant to ponding water

APPROVALS / CERTIFICATES

- CE Marking and Declaration of Performance to ETA-19/0634, based on ETAG 005 Part 1 and Part 6: Liquid Applied Roof Waterproofing Kit based on polyurethane

PRODUCT INFORMATION

Composition	Polyurethane-Polyurea	
Packaging	Part A+B: 26,5 kg unipack	
	Part A	25 kg container
	Part B	1,5 kg container
	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	<p>Standard colour: grey Other colours on request.</p> <p>When product is exposed to direct sunlight, there may be some discolouration and colour variation, this has no influence on the function and performance of the product finish.</p> <p>Additional UV protection can be achieved by application of Sikalastic®-701 topcoat</p>	

Density	Part A	1,3 kg/l	(DIN EN ISO 2811-11)
	Part B	0,99 kg/l	
All values at +20 °C			
Volatile organic compound (VOC) content	Part A	~84 g/l (15 %)	(Decopaint 2004/42/EC)
	Part B	~572 g/l (57 %)	

TECHNICAL INFORMATION

Shore A hardness	~75	(ISO 868)
Tensile strength	~5,7 MPa	(EN ISO 527-3)
Tensile strain at break	~600 %	(EN ISO 527-3)
Tensile adhesion strength	Substrate	Value
	Concrete	~2,0 MPa
	Ceramics	~2,6 MPa
	PU Foam	~1,4 MPa
Tear strength	~34 N/mm	(ISO 34-1 method B)
Permeability to water vapour	$\mu \approx 2000$	14 g/m ² day (EN 1931)
Chemical resistance	Resistant to many chemicals. Contact Sika Technical Service for additional information.	
Behaviour after artificial weathering	Limited resistance to UV-induced degradation	

SYSTEM INFORMATION

System structure	Roof waterproofing with or without reinforcement		
	Refer to the systems included in ETA-19/0634 of Sikalastic®-709* * For exposed areas use always a protective UV topcoat such us Sikalastic®-701		
Primer chart	Substrate	Primer	
	Cementitious substrates	Sika® Concrete Primer or Sikafloor®-161 lightly broadcast with quartz sand, 0,3–0,8 mm	
	Ceramic tiles (unglazed), concrete slabs	Sika® Concrete Primer	
	Bituminous felt	Sikalastic® Metal Primer	
	Bituminous coatings	Sikalastic® Metal Primer	
	Metal, ferrous or galvanised metals, lead, copper, aluminium, brass or stainless steel	Sikalastic® Metal Primer	
	Dry film thickness	Depends on waterproofing system: 1,4 mm / 1,6 mm / 2,2 mm	
	System performance	ETA-19/0634: 1,6 kg/m ² , non-reinforced	W2 / S / P1-P3 / S1-S4 / TL3 / TH2 - TH4
ETA-19/0634: 2,0 kg/m ² , non-reinforced		W3 / S / P2-P3 / S1-S4 / TL3 / TH2 - TH4	
ETA-19/0634: 3 kg/m ² , reinforced with Sikalastic® Fleece-120		W3 / S / P3-P4 / S1-S4 / TL3/ TH2 - TH4	
ETA-19/0634: 2 kg/m ² , reinforced with Sika® Reemat Premium		W3 / S / P3-P4 / S1-S4 / TL3/ TH2 - TH4	

APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 100 : 6 (by weight) Part A : Part B = 100 : 8 (by volume)	
Material temperature	+10 °C min. / +25 °C max.	
Ambient air temperature	+5 °C min. / +40 °C max.	
Relative air humidity	30 % min / 85 % 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	+5 °C min. / +40 °C max.	
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	Temperature (°C)	Pot life (minutes)
	+5	~180
	+23	~60
	+35	~30
Pot life will decrease at higher temperatures and increase at lower temperatures.		
Tack free time	Condition	Touch dry
	+35 °C / 30 % RH	~1,5 hours
	+25 °C / 40 % RH	~3,0 hours
	+5 °C / 60 % RH	~7,0 hours
Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.		
Waiting time to overcoating	Sikalastic®-701 on Sikalastic®-709 Maximum 1 week	

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.

- It is recommended that preliminary application trials are carried out before full project application.

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

Prior to mixing all parts, mix separately Part A (resin) using an electric single or double paddle mixer and stirrer (300–400 rpm) or other similar 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 2,0 minutes until a uniformly coloured mix has been achieved. Over mixing must be avoided to minimise air entrainment. Mix full units only. Mixing time for A+B = ~2,0 minutes.

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.

Prior to application, confirm substrate moisture content, relative air humidity, dew point, substrate, air and product temperatures.

Sikalastic®-709 is poured onto the prepared substrate and spread evenly using a serrated / notched trowel. Spike roller immediately in two directions at right angles to each other to remove trowel marks, aid air release, ensure an even thickness and obtain the required surface finish.

Alternatively apply by roller at ~1,0 kg/m² / layer to the required thickness.

A seamless finish can be achieved if a 'wet' edge is maintained during application.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Thinner C 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, 14001, 45001 –
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ISO 9001, 14001, 45001 – SGS
Sika Gulf S.S.C. O.
ISO 9001, 14001 – SGS
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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 ISO 45001.



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