

PRODUCT DATA SHEET

Sikalastic®-641

1-part Polyurethane low odour liquid applied membrane for roof waterproofing

DESCRIPTION

Sikalastic®-641 is a cold applied, 1-part, reinforced moistured hardened polyurethane liquid membrane with low odour. It provides a UV-stable, seamless, smooth, durable and weather-resistant waterproof finish.

USES

Sikalastic®-641 may only be used by experienced professionals.

- Roof waterproofing according to DIN 18531
- For new construction and renovation
- Detailing with Sika® Reemat Premium or polyester fleece Sikalastic® Fleece-200
- E1 PUR-1K-M-S-W3-P4-S1, S2, S3, S4-TL4-TH4-DIN 18531-2

FEATURES

- High solid content
- VOC 2004/42/CE conform

- Easy detailing due to application with Sika® Reemat Premium or Sikalastic® Fleece-200
- Vapour permeable
- Resistant to UV exposure
- Good adhesion to most construction substrates
- Solvent-reduced GISCODE PU20, low odour

CERTIFICATES AND TEST REPORTS

- European Technical Assessment (ETAG 005) Nr. **ETA 14/0177**
 - Service life W3
 - Climate zone M-S
 - Roof slope S1-S4
 - Load capacity P1-P4
 - Surface temp. low TL4 (-30 °C)
 - Surface temp. high TH4 (+90 °C)
- Declaration of performance Nr.: 020915205000000231148
- External fire exposure according to CEN/TS 1187: B_{Roof} (t1)
- Fire behaviour according to DIN EN 13501-1: Klasse E
- Approval hard roofing: abP available
- Odournet – Report number: 504 - 2014

PRODUCT INFORMATION

Composition	1-part aliphatic polyurethane	
Packaging	Metal container	5 L (7,1 kg)
	Metal container	15 L (21,3 kg)
Shelf life	9 month from date of production	
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between 0°C and +25°C. Always refer to packaging.	
Colour	slate grey (nearest RAL 7015) cloud grey 1 (nearest RAL 7045) shale grey 8500 (nearest RAL 7047) white* (nearest RAL 9016)	

* delivery time on request.

Density	~1,42 kg/l (at +23 °C)	(EN ISO 2811-1)
Solid content by mass	~88 % by mass (+23 °C / 50 % r.H.)	
Solid content by volume	~84 % by volume (+23 °C / 50 % r.H.)	

TECHNICAL INFORMATION

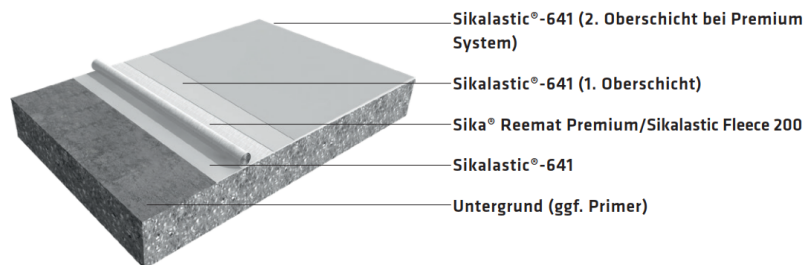
Tensile strength	unreinforced	6 N/mm ²	(EN ISO 527-3)
Tensile strain at break	unreinforced	280 %	(EN ISO 527-3)
Service temperature	Service temperature -30 °C to +90 °C (valid for totally hardened product system)		
External fire performance	B _{Roof} (t1)		(CEN/TS 1187)
	Resistance to flying sparks and radiant heat (valid for Sika approved build-ups)		(CEN/TS 1187) (DIN 4102-7)
Reaction to fire	Class E		(DIN EN 13501-1)

SYSTEM INFORMATION

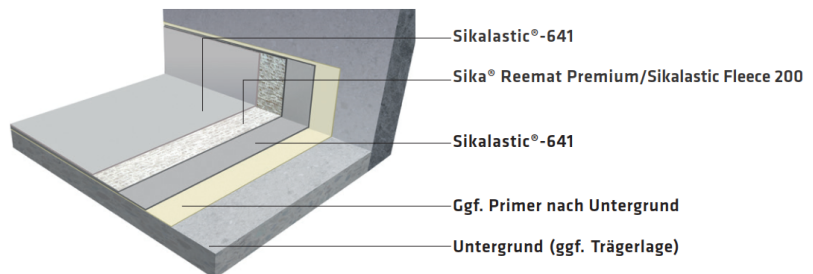
System structure	Systeme	Build-up	Dry film Thickness
	Premium Reemat	Sikalastic®-641 + Sika® Reemat Premium	2,2 mm (at 3,5* kg/m ²)
	Premium Fleece	Sikalastic®-641 + Sikalastic® Fleece-200	2,2 mm (at 3,5* kg/m ²)

* Rates of consumption are optimized and not guaranteed. Real consumption amounts depending on temperature, surface conditions, porosity and application method.

Area system build-up:



Detailing system build-up:



System performance

	System Premium Reemat and Fleece	
Tensile strength	6,4 N/mm ²	CQP 037-1
Tensile load	350 N/25 mm	CQP 037-1
Tear resistance	26 N/mm	CQP 037-1
Tensile elongation at break	80 %	CQP 037-1
Water vapor permeability	6,07 g/m ² /day	EN 1931 - method B
Water vapor transmission resistance	μ= 2.782	EN 1931 - method B

APPLICATION INFORMATION

Ambient air temperature	+5 °C min. / +40 °C max.	
Relative air humidity	20 % r.H. min. / 85 % r.H. max.	
Substrate temperature	+5 °C min. / +60 °C max. ≥ 3 K above dew point	
Substrate moisture content	≤ 4 % (mass %) for cementous surfaces (measured with CM-method). No rising moisture, no water or dew, no condensat on surface.	
Pot Life	appr. 1 hour (at +20 °C / 50 % r.H.)	
Waiting time to overcoating	Ambient conditions	Min. waiting time¹
	+5 °C / 50 % r.H.	18 hours
	+10 °C / 50 % r.H.	8-10 hours
	+20 °C / 50 % r.H.	4-6 hours
	+30 °C / 50 % r.H.	4 hours

¹ Application at higher than recommended film thickness may result in a prolonged "soft" feel to the coating. This will eventually cure.

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

Applied product ready for use	Ambient conditions	Rain resistant ¹	Full cured ²
	+5 °C / 50 % r.H.	1 hour	24 hours
	+10 °C / 50 % r.H.	1 hour	18-24 hours
	+20 °C / 50 % r.H.	1 hour	12-18 hours
	+30 °C / 50 % r.H.	1 hour	8-12 hours

¹ Be aware that the impact of heavy rain showers can physically mark or damage the still liquid membrane.

² Application at higher than recommended film thickness may result in a prolonged "soft" feel to the coating. This will eventually cure.

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

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.

IMPORTANT CONSIDERATIONS

- Do not dilute with solvent.
- On substrates likely to exhibit outgassing, apply during falling ambient and substrate temperature. If applied during rising temperatures "pin holing" may occur from rising air.
- Do not use Sikalastic®-641 for indoor application.
- Do not apply close to air intake vents of running air conditioning units unless they have been switched off or isolated as vapour may be drawn into the

building.

- The product can be applied with brush, roller or an airless machine. Next layer to be applied when the layer is tack-free cured.
- The product can be overcoated with itself under the given conditions.
- Sikalastic®-641 is resistant to most occurring contaminations, cleaning agents and environmental influences. If used under increased chemical requirements the application must be coordinated with Sika Application technology.
- For safety use of the product refer to the informations from the safety data sheet.

PRODUCT DATA SHEET

Sikalastic®-641

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BUILDING TRUST



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.

Regulation (EC) No 1907/2006 (REACH) - Mandatory training

As from 24 August 2023 adequate training is required before industrial or professional use of this product. For more information and a link to the training visit www.sika.com/pu-training.



DIRECTIVE 2004/42/CE LIMITATION OF EMISSIONS OF VOC

With reference to the EU regulation 2004/42/CE, the maximum permitted content of solvents (VOC) (product category IIA / i type sb) is 600/500g/l (limit values 2007/2010) for the ready-to-use product. The maximum content for Sikalastic®-641 is <500g/l VOC for the ready-to-use product.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The substrate must be prepared with suitable measures; regulations, standards and contractually agreed services must be observed.

We always recommend carrying out compatibility and adhesion tests in advance.

Further information can be found in the Sikalastic® installation instructions and primer overview.

Substrate assessment

Test for tensile strength: e. g. cement/screed average value 1,5 N/mm².

Test for residual moisture: e. g. cement/screed ≤ 4 % (mass %), measurement CM method. Recommended laying time for fresh cement screed min. 28 days

Test for load capacity: Existing waterproofing must be laid in a secure position to absorb wind suction forces.

Test for roughness/un-evenness: Leveling by means of suitable measures, e.g. grinding/shot blasting/scratch filling.

Test for separating media/contamination: Contaminations and loose, separating components must be removed using suitable measures.

MIXING

The material may settle to the bottom during storage, so it should be stirred lightly with a spatula or flat blade for approx. 2-3 minutes before use to ensure homogeneity. Avoid stirring too vigorously to minimize air entrainment.

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.

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