BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic®-625 N

High performance polyurethane liquid applied waterproofing membrane

DESCRIPTION

Sikalastic®-625 N is a 1-part polyurethane, reinforced, cold-applied liquid membrane. It provides a flexible, seamless waterproofing solution using Sika's unique i-Cure technology.

USES

Designed for the following waterproofing applications:
- Roof waterproofing for new construction and refurbishment projects
- Unreinforced waterproofing system for profiled metal roofs
- Reinforced waterproofing of flat and pitched roof structures, communal walkways, podium decks and roof terraces exposed to pedestrian traffic
- Waterproofing structures with numerous details such as penetrations, drains, roof lights and complex geometry
- Waterproofing existing substrates of concrete, bituminous felt and coatings, brick, stone, asbestos cement, metal, wood, unglazed ceramic tiles
- For exterior use only

Sikalastic®-625 N may only be used by experienced professionals.

CHARACTERISTICS / ADVANTAGES

- 1-Part ready to use
- Low maintenance
- Seamless
- Easy and quick application by brush, roller or spray
- Suitable for trafficable areas
- Vapour permeable
- Good UV resistance and colour stability
- Retains flexibility at low temperatures
- Cold applied - requires no heat or flame
- Moisture triggered technology develops early rain resistance
- Good elastic properties
- Low temperature application > +2 °C

APPROVALS / STANDARDS

- CE Marking and Decalaration of Performance to European Technical Assessment ETA-20/0073, based on ETAG 005 Part 1 and Part 6
- Fire Testing according to ENV 1187: Test Report No. 19823F, 19823K, 19823B, 19750A, 19750D, 19750G
- Fire Testing EN 13501-1, Sikalastic®-625 N, Warrington fire, Report No.WF 418126

PRODUCT INFORMATION

Chemical Base	Elastomeric aliphatic polyurethane
Packaging	15 L container Refer to current price list for packaging variations.
Colour	Note: Applied colours selected from colour charts will be approximate. Note: For colour matching: Apply colour sample and confirm selected colour under real lighting conditions. Light Grey (~RAL 7035), White (~RAL 9016), Slate Grey (~RAL 7015)
Shelf Life	12 months from date of production

Storage Conditions	The 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	~1,26 kg/l	(EN ISO 2811-1)
Solid content by weight	~77 % (+23 °C / 50 % r.h.)	(EN ISO 3251)
Solid content by volume	~71 % (+23 °C / 50 % r.h.)	(EN ISO 3251)

TECHNICAL INFORMATION

Tensile Strength	Reinforced	~13 N/mm²	(ISO 527-1/3)
	Unreinforced	~6 N/mm²	
Elongation at Break	Reinforced	~30 %	(EN ISO 527–1/3)
	Unreinforced	~450 %	
Tear Strength	~26 N/mm		(ISO 527-1/3)
External Fire Performance	B_{roof} (t1); B_{roof} (t4)		(ENV-1187)
Reaction to Fire	Euroclass E		(EN13501-1)
Chemical Resistance	Resistant to many chemicals. Contact Sika Technical Services for additional information.		
Thermal Resistance	-20 °C to +80 °C		
Solar Reflectance	Initial: 0,87		
Thermal Emittance	Initial: 0,88		
Solar Reflectance Index	Initial: 110		
Service Temperature	-20 °C min. / +80 °C max.		

SYSTEM INFORMATION

System Structure

Note: For detailed reinforcement information refer to the Sika Method Statement: Sikalastic®-625 N
Note: These figures are theoretical and do not include for any additional material required due to surface porosity, surface profile, variations in level and wastage etc.

Reinforced roof waterproofing ETA-20/0073 (ETAG 005)
The build-up in the table corresponds to a reinforced waterproofing kit for flat and pitched roofs, communal walkways, podium decks and roof terraces.

Layer	Product	Consumption
1. Primer	Depending on the substrate	Refer to the primer Product Data Sheet
2. Base Coat	Sikalastic®-625 N	~1,0 l/m²
3. Reinforcement	Sika® Reemat Preemium	-
4. Top Coat	Sikalastic®-625 N	~1,0 l/m²

Locally reinforced roof waterproofing ETA-20/0073 (ETAG 005)
Important: If required, use reinforcement in localised areas for all joints, areas subject to differential movement, guttering / drainage channels and repairs to membrane.
The build-up in the table corresponds to an unreinforced waterproofing kit used on profiled metal roofs.

Layer	Product	Consumption
1. Primer	Depending on the substrate	Refer to PDS of the primer
2. Base Coat	Sikalastic®-625 N	~0,5 l/m²
3. Localised reinforcement	Sika® Reemat Preemium	-
4. Top Coat	Sikalastic®-625 N	~0,5 l/m²

Dry film thickness	ETA-20/0073 waterproofing kit for all flat roof types	~1,5 mm
	ETA-20/0073 waterproofing kit for all metal roof types	~0,7 mm
System Performance	ETA-20/0073 waterproofing kit for all flat roof types	W3 / M and S / P3-P4 / S1-S4 / TL4 – TH4
	ETA-20/0073 waterproofing kit for all metal roof types	W2 / M and S / P3 / S1-S4 / TL3 - TH3

APPLICATION INFORMATION

Ambient Air Temperature

+2 °C min. / +30 °C max.

Relative Air Humidity

20 % min. / 85 % max.

Substrate Temperature

+2 °C min. / +30 °C max.

Dew Point

Beware of condensation.
The substrate and uncured applied product must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the surface of the applied product. Metal surfaces will be more prone to temperature fluctuations occurring and wind chill effects.

Substrate Moisture Content

≤ 4% parts by weight
The following test methods can be used to determine the substrate moisture content:
- Sika®-Tramex meter
- No rising moisture must be present according to ASTM (Polyethylene-sheet).

Substrate Pre-Treatment

Important: Other substrates must be tested for their compatibility. To ensure compatibility, carry out preliminary trials.
Important: Adhesion and compatibility suitability must be verified practically on site before commencing contract.
Note: For consumption rates and waiting time / overcoating, refer to the individual Product Data Sheet of the appropriate primer.

Substrate	Primer
Cementitious, concrete, brick, stone, ceramic tiles (unglazed)	Sika® Concrete Primer Sika® Bonding Primer
Metals: Ferrous or galvanised, lead, copper, aluminium, brass, stainless steel	Sikalastic® Metal Primer
Bituminous felt & coating	Sikalastic® Metal Primer
Wood	Wood based roof decks require a complete layer of Sikalastic® Carrier. For small exposed sections, use Sika® Concrete Primer or Sika Bonding Primer.
Paint coatings	Subject to adhesion and compatibility tests
Existing Sikalastic®-625 N system	Sika® Reactivation Primer

Pot Life

Note: The material in opened containers must be applied before a surface

	skin occurs. Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.
	~1–2 hours

Applied Product Ready for Use

Important: The impact of heavy rain or rain showers can physically mark or damage the membrane in its liquid state.
Note: Application at higher than recommended film thicknesses may result in a prolonged “soft” feel to the coating. This will eventually cure and harden.
Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

Ambient conditions	Rain resistant	Touch dry	Full cure
+2°C / 50 % r.h.	~12 hours	~20 hours	>24 hours
+10°C / 50 % r.h.	~9 hours	~15 hours	~24 hours
+20°C / 50 % r.h.	~6 hours	~10 hours	~18 hours
+30°C / 50 % r.h.	~4 hours	~6 hours	~14 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: Sikalastic®-625 N

LIMITATIONS

Installation work must only be carried out by Sika trained and approved contractors, experienced in this type of application.

- Do not use for indoor applications.
- Do not apply on substrates with rising moisture or are not stable.
- Do not dilute with any solvent.
- Do not apply near to running air intakes of air conditioning units. Switch off units and seal intakes before applying.
- All areas requiring an anticorrosive protection system must be applied directly to a prepared bright metal finish.

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

EQUIPMENT

Select the most appropriate equipment required for the project:

Substrate preparation equipment

- Abrasive blast cleaning / planing / scarifying or grinding equipment.
- Manual or mechanical wire brushes
- High pressure power washer

For other types of preparation equipment, contact Sika Technical Services

Mixing Equipment

- Electric single paddle mixer (300–400 rpm) with spiral paddle

For other types of preparation equipment, contact Sika Technical Services

Application Equipment

- Brush
- Roller
- Airless spray

For more detailed information refer to the Sika Method Statement: Sikalastic®-625 N

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: Sikalastic®-625 N
- Suitable substrates: Cementitious, concrete, bituminous felt and coatings, brick, stone, asbestos cement, metal, wood, unglazed ceramic tiles

General

All contamination such as dust, loose and friable material that could affect final finish or reduce adhesion, must be completely removed from all surfaces before application of the product or subsequent products, preferably by industrial vacuuming equipment.

MIXING

- Sikalastic®-625 N is supplied ready for use.
- Before application, mix for at least 2 minutes or until the liquid and all the coloured pigment have achieved a uniform colour.

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.
Reference must be made to the Sika Method Statement: Sikalastic®-625 N

CLEANING OF TOOLS

Clean all tools and application equipment with Thinner C or xylene 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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