

PRODUCT DATA SHEET

Sikalastic®-625 N

High-performance, liquid-applied polyurethane waterproofing membrane

DESCRIPTION

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

USES

Sikalastic®-625 N is used for:

- New construction and refurbishment projects
- Unreinforced waterproofing of profiled metal roofs
- Reinforced waterproofing of flat and pitched roof structures, communal walkways, podium decks and roof terraces exposed to pedestrian traffic
- Roofs with numerous details such as penetrations, drains, roof lights and complex geometry

Sikalastic®-625 N is used on the following substrates:

- Concrete and cementitious substrates
- Bituminous felt and coatings
- Brick
- Natural stone
- Fibre cement
- Metal
- Wood
- Unglazed ceramic tiles
- FPO or PVC membranes

Please note:

- The Product may only be used by experienced professionals.
- The Product may only be used for exterior applications.

PRODUCT INFORMATION

Composition	Elastomeric aliphatic polyurethane	
Packaging	One Part Container	15 L container
Refer to the current price list for available packaging variations.		

FEATURES

- One-part ready to use
- Low maintenance
- Seamless
- Easy to apply
- Applied by brush, roller, or airless spray
- Resistant to foot traffic
- Good water vapour permeability
- Very good resistance to permanent UV exposure
- Good flexibility at low temperatures
- Easily detailed around complex geometries
- Cold applied - requires no heat or flame
- Moisture-triggered technology develops early rain resistance
- Low temperature application > +2 °C

CERTIFICATES AND TEST REPORTS

- European Technical Assessment ETA-20/1023 2020-12-20
- Fire Testing EN 13501-1, Sikalastic®-625 N, Warringtonfire, Report No.WF 418126
- CE marking and declaration of performance based on European Technical Assessment ETA-20/1023. ETA issued on the basis of EAD 030350-00-0402 Liquid applied roof waterproofing kits.

Colour	Cured colour	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 sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.	
Density	1.26 kg/l	(EN ISO 2811-1)
Solid content by mass	77 %	(EN ISO 3251)
Solid content by volume	71 %	(EN ISO 3251)

TECHNICAL INFORMATION

Tensile strength	Reinforced	13 MPa	(EN ISO 527-2)
	Unreinforced	6 MPa	
Tensile strain at break	Cured 7 days at +23 °C, reinforced	30 %	(EN ISO 527-3)
	Cured 7 days at +23 °C, unreinforced	450 %	
Tear strength	26 N/mm		(EN ISO 527-3)
External fire performance	B _{roof} (T1) B _{roof} (T4)		(CEN/TS 1187)
Reaction to fire	Class E		(EN 13501-1)
Chemical resistance	Laboratory-defined resistance to many individual chemicals. Before proceeding, contact Sika Technical Service for specific information.		
Solar reflectance	Initial	0.87	(ASTM C1549)
Thermal emittance	Initial	0.88	(ASTM C1371)
Solar reflectance index	Initial (Convective coefficient, medium wind)	110	(ASTM E1980)

SYSTEM INFORMATION

System structure	Layer	Product
	Primer	Dependent on the substrate
	Base layer	Sikalastic®-625 N
	Reinforcement	Sika® Reemat Premium
	Top coat	Sikalastic®-625 N

Dry film thickness

WATERPROOFING KIT FOR ALL FLAT ROOFING TYPES

~ 1.5 mm DFT

The categorisation of levels of performance in accordance with EAD-030350-00-0402 are:

Categorisation	Value
Working life	W3
Climatic zones	M and S
Imposed loads	P3 to P4
Roof slope	S1 to S4
Lowest surface temperature	TL4
Highest surface temperature	TH4

WATERPROOFING KIT FOR ALL METAL ROOFING TYPES

~ 0.7 mm DFT

The categorisation of levels of performance in accordance with EAD-030350-00-0402 are:

Categorisation	Value
Working life	W2
Climatic zones	M and S
Imposed loads	P3
Roof slope	S1 to S4
Lowest surface temperature	TL3
Highest surface temperature	TH3

APPLICATION INFORMATION

Consumption

REINFORCED ROOF WATERPROOFING

Layer	Product	Consumption
Primer	Dependent on the substrate	Refer to PDS of the respective Primer
Base layer	Sikalastic®-625 N	1.0 l/m ²
Reinforcement	Sika® Reemat Premium	-
Top coat	Sikalastic®-625 N	1.0 l/m ²

LOCALLY REINFORCED ROOF WATERPROOFING

Use reinforcement in localised areas for all joints, areas subject to differential movement, guttering or drainage channels and for repairs to the membrane.

Layer	Product	Consumption
Primer	Dependent on the substrate	Refer to PDS of the respective Primer
Base layer	Sikalastic®-625 N	0.5 l/m ²
Reinforcement (where required)	Sika® Reemat Premium	-
Top coat	Sikalastic®-625 N	0.5 l/m ²

Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply the Product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.

Material temperature	Maximum	+30 °C
	Minimum	+2 °C

Ambient air temperature	Maximum	+30 °C
	Minimum	+2 °C

Relative air humidity	Maximum	85 %
	Minimum	20 %

PRODUCT DATA SHEET

Sikalastic®-625 N

October 2024, Version 04.01

02091520500000057

Dew point	Beware of condensation. Substrate temperature during application must be at least +3 °C above dew point.			
Substrate temperature	Maximum	+30 °C		
	Minimum	+2 °C		
Substrate moisture content	Substrate	Test method	Moisture content	
	Cementitious substrates	Calcium carbide method (CM method)	≤ 4 %	
No rising moisture (ASTM D4263, polyethylene sheet)				
Pot Life	+20 °C	1-2 hours		
Applied product ready for use	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
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 Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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 for all applications required for the project.

SUBSTRATE PREPARATION EQUIPMENT

- Grinding equipment
- Manual or mechanical wire brushes
- High-pressure power washer
- Industrial vacuuming equipment

For other types of preparation equipment, contact Sika Technical Services.

MIXING EQUIPMENT

- Electric single-paddle mixer (300 to 400 rpm)

APPLICATION EQUIPMENT

- Brush
- Fleece roller
- Airless spray equipment

SUBSTRATE PREPARATION

Penetrations and structural joints

Note: Additional Sika joint sealing solutions must be used for connections around penetrations and for construction joints.

SYSTEM DESIGN

Consider the following when designing the system:

- The supporting structure must be of sufficient structural strength to support all new and existing layers of the system build-up.
- If used as a roof system, the complete system must be designed to withstand and be secured against wind uplift loadings.

GENERAL

- The tensile adhesion strength of concrete substrates must be a minimum of 1.5 N/mm². If necessary, verify this by applying a test area first.
- Substrates must be free of standing water (no puddles), and clean and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product and associated system products, preferably by industrial vacuuming equipment.
- To confirm adequate surface preparation and adhesion of the Product, carry out a small trial before full application together with adhesion tests as required.
- Where ancillary products are mentioned, refer to the relevant Product Data Sheet.

PRODUCT DATA SHEET

Sikalastic®-625 N

October 2024, Version 04.01

020915205000000057

BRICK MASONRY OR NATURAL STONE

1. Brick, stone and mortar joints must be sound and preferably flush finished.
2. Replace loose bricks, stone and mortar.
3. Apply strips or sections of Sika® reinforcement over mortar joints.
4. Thoroughly clean the surface by power washing and allow to dry.
5. Prime the prepared surface with Sika® Concrete Primer or Sika® Bonding Primer. Refer to Product Data Sheet.

CONCRETE OR CEMENTITIOUS SCREEDS

1. Substrate must be sound with a minimum tensile adhesion strength of 1.5 N/mm², clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.
2. New concrete must be cured for at least 28 days and have a tensile strength > 1.5 N/mm².
3. **IMPORTANT** The final texture of the substrate must be open-textured and gripping. Prepare cementitious substrates mechanically using abrasive blast cleaning, planing or scarifying equipment to remove cement laitance.
4. Remove weak concrete and fully expose defects such as blow holes and voids. Note Suitable methods for surface preparation are high-pressure water jetting or abrasive blast cleaning. If using other pre-treatments such as scarifying and milling, subsequently use water jetting or blast cleaning to eliminate the remaining structural faults, remove cement laitance, and achieve an open and sound textured surface.
5. Repair and fill blow holes and voids using appropriate products from the SikaTop®, Sika MonoTop®, Sikafloor®, Sikadur® and Sikagard® range of materials.
6. Before applying coatings, remove high spots by grinding.
7. Remove dust by industrial vacuuming equipment.
8. Prime the prepared surface with Sika® Concrete Primer or Sika® Bonding Primer. Refer to Product Data Sheet.

METALS

1. Metals and existing coatings must be in a sound surface condition.
2. Abrade surfaces to remove any rust and loose coatings.
3. Bare metal must achieve a bright rust-free finish.
4. Prepare substrate mechanically using suitable abrading, grinding, rotating wire brush or other similar equipment.
5. Apply Sikalastic® Metal Primer to optimise adhesion and protect metal from corrosion.
6. Apply strips or sections of Sika® reinforcement over joints and fixings.
7. Prime the prepared surface with Sikalastic® Metal Primer. Refer to Product Data Sheet.

UNGLAZED CERAMIC TILES

1. Make sure all tiles are securely fixed.
2. Replace or fix any broken, loose or missing tiles.
3. Thoroughly clean the surface by power washing and allow to dry.
4. Prime the prepared surface with Sika® Concrete Primer or Sika® Bonding Primer. Refer to Product Data Sheet.

WOOD

1. Wood and wood-based panel roof decks must be in good structural condition, firmly bonded or mechanically fixed.
2. Replace or fix any defective or loose panels.
3. Hammer or screw any protruding nail or screw heads below the surface of the top deck.
4. Remove any sharp protrusions from the surface.
5. Prepare substrate mechanically using suitable wood abrading equipment.
6. Remove dust by industrial vacuuming equipment.
7. Apply Sikalastic® Carrier to the full surface of the wood-based deck. For localised exposed sections prime with Sika® Concrete Primer or Sika® Bonding Primer Refer to Product Data Sheet.

BITUMINOUS FELT AND COATINGS

1. Thoroughly clean the surface by power washing and allow to dry.
2. Prime the prepared surface with Sikalastic® Metal Primer. Refer to Product Data Sheet.

EXISTING

1. Thoroughly clean the surface by power washing and allow to dry.
2. Prime the prepared surface with Sika® Reactivation Primer. Refer to Product Data Sheet.

EXISTING FPO OR PVC ROOFING MEMBRANES

1. Contact Sika Technical Services for additional information.

MIXING

IMPORTANT

Do not dilute with solvent or water.
The Product is supplied ready to use.

1. Prior to application mix for at least 2 minutes using an electric single-paddle mixer (300 to 400 rpm) until the liquid and all coloured pigment has achieved a uniform colour.

APPLICATION

IMPORTANT

Strictly follow installation procedures

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

PRODUCT DATA SHEET

Sikalastic®-625 N

October 2024, Version 04.01

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IMPORTANT

Protect from rain

After application, protect the Product from heavy rain or rain showers until dry to prevent surface damage.

IMPORTANT

No application on rising moisture

Do not apply on substrates with rising moisture.

IMPORTANT

Failure of reinforcement overlaps

To ensure a watertight seal is maintained all reinforcement overlaps must be to a minimum dimension.

1. Ensure side overlaps are greater than 100 mm and end overlaps are greater than 200 mm.

COATING

1. Always begin application with detailing (corners, up-stands, joints) before installation of the main horizontal surfaces.
2. Apply the first layer of the Product evenly over the surface with a brush, roller or airless spray equipment. Note For consumption details, see Application Information.
3. Back-roll the surface in two directions at right angles with a fleece roller. Note Maintain a "wet edge" during application to achieve a seamless finish.
4. For a reinforced membrane lay the Sika® Reinforcement onto the wet base coat. Note The reinforcement fibres must be fully encapsulated within the base coat.
5. Apply a second layer of the Product evenly over the surface with a brush, roller or airless spray equipment. Note For consumption details, see Application Information.
6. Back-roll the surface in two directions at right angles with a fleece roller. Note Maintain a "wet edge" during application to achieve a seamless finish.
7. The coating must be continuous, pore free and to the required surface finish.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika® Thinner C immediately after use. Hardened material can only be removed mechanically.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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