

PRODUCT DATA SHEET

Sikalastic®-625 BMS

High performance reduced CO₂ footprint polyurethane liquid applied waterproofing

PRODUCT DESCRIPTION

Sikalastic®-625 BMS is a 1-part polyurethane, reinforced, cold-applied liquid membrane. It provides a flexible, seamless waterproofing solution using Sika's unique i-Cure technology and selected sustainable raw materials derived from renewable sources, thereby reducing the product's carbon footprint.

USES

Designed for the following waterproofing applications:

- Roof waterproofing for new construction and refurbishment projects
- Reinforced waterproofing of flat and pitched roof structures
- 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 BMS 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 light foot traffic areas (maintenance walkways)
- 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
- Low odour and renewable raw materials content
- Good elastic properties

APPROVALS / STANDARDS

- BBA Certificate - 16/5294
- TÜV Rheinland Product Carbon Footprint Certificate
- Fire Testing to EN 13501-5 (Classification Brooft4) - Sikalastic®-625 BMS, Warrington Fire, Report No. 23465B, 23465D
- Olfasense - Report Number SIKA24A

PRODUCT INFORMATION

Chemical Base	Elastomeric aliphatic polyurethane
Packaging	15 L container Refer to current price list for packaging variations.
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.
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 and Dark Grey

Density	~1,26 kg/l	(EN ISO 2811-1)
Solid content by mass	~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	~14 N/mm ²
	Unreinforced	~8 N/mm ²
Elongation at Break	Reinforced	~30 %
	Unreinforced	~450 %
Tear Strength	~36 N/mm	(ISO 527-1/3)
Service Temperature	-30 °C min. / +90 °C max.	
Thermal Resistance	-20 °C min. / +80 °C max.	
Chemical Resistance	Resistant to many chemicals. Contact Sika Technical Services for additional information.	
External Fire Performance	B _{roof} (T1), B _{roof} (T4)	

SYSTEM INFORMATION

System Structure

Note: For detailed reinforcement information refer to the Sika Method Statement: Sikalastic®-625 BMS 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.

15-Year Reinforced roof waterproofing

The build-ups 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 BMS	~1,0 l/m ²
3. Reinforcement	Sika® Reemat Preemium	-
4. Top Coat	Sikalastic®-625 BMS	~0,75 l/m ²

20-Year Reinforced roof waterproofing

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

Dry film thickness	Waterproofing kit for all flat roof types	~1,5 mm
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APPLICATION INFORMATION

Ambient Air Temperature	+5 °C min. / +40 °C max.	
Relative Air Humidity	20 % min. / 85 % 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 Temperature	+5 °C min. / +60 °C max.																				
Substrate Moisture Content	<p>≤ 4% parts by weight The following test methods can be used to determine the substrate moisture content:</p> <ul style="list-style-type: none"> ▪ Sika®-Tramex meter ▪ No rising moisture must be present according to ASTM (Polyethylene sheet). 																				
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	<p>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.</p> <table border="1"> <thead> <tr> <th>Ambient conditions</th> <th>Rain resistant</th> <th>Touch dry</th> <th>Full cure</th> </tr> </thead> <tbody> <tr> <td>+2°C / 50 % r.h.</td> <td>~12 hours</td> <td>~20 hours</td> <td>>24 hours</td> </tr> <tr> <td>+10°C / 50 % r.h.</td> <td>~9 hours</td> <td>~15 hours</td> <td>~24 hours</td> </tr> <tr> <td>+20°C / 50 % r.h.</td> <td>~6 hours</td> <td>~10 hours</td> <td>~18 hours</td> </tr> <tr> <td>+30°C / 50 % r.h.</td> <td>~4 hours</td> <td>~6 hours</td> <td>~14 hours</td> </tr> </tbody> </table>	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
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VALUE BASE

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 BMS

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.

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

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 BMS.

SUBSTRATE QUALITY

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 LO Sika® Bonding Primer
Bituminous felt & coating	Sikalastic® Metal Primer N
Wood	Wood based roof decks require a complete layer of Sikalastic® Carrier. For small exposed sections, use Sika® Concrete Primer LO or Sika® Bonding Primer.
Paint coatings	Subject to adhesion and compatibility tests
Existing Sikalastic®-625 BMS system	Sika® Reactivation Primer

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 BMS
- 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 BMS 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 BMS

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.

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