

PRODUCT DATA SHEET

Sikalastic®-619

Single component, polyurethane, liquid waterproofing membrane

DESCRIPTION

Sikalastic®-619 is a one component cold applied, moisture-curing polyurethane waterproof coating.

USES

For non-exposed projects:

- Underground projects
- Inverted roofs or green roofs
- Basement, bathroom or kitchen waterproofing
- Tunnels

CHARACTERISTICS / ADVANTAGES

- Single component, cold applied
- No mixing, easy and ready to use
- Seamless membrane based upon moisture-cured chemistry
- Good mechanical properties
- Reinforced system-easy detailing
- Cost saving
- Requires no heat or flame

APPROVALS / STANDARDS

GB/T 19250 Polyurethane waterproofing coating, type S I N B.

PRODUCT INFORMATION

Packaging	25 kg/pail	
Shelf Life	6 months from date of production if stored properly.	
Storage Conditions	Store in original, unopened and undamaged sealed packaging in dry conditions at temperature between 5°C and 40°C. Protect from frost. Exposure to higher temperatures will reduce shelf life.	
Colour	Dark grey	
Density	~1.4 kg/l (value at +25 °C)	
Solid Content by Weight	≥ 85%	GB/T 19250
Solid Content by Volume	~80%	only for DFT calculation

TECHNICAL INFORMATION

Tensile Strength	≥ 2.00 MPa	GB/T 16777
Elongation at Break	≥ 500%	GB/T 16777
Adhesion in Peel	≥ 1.0 MPa	GB/T 16777
Tear Strength	≥ 15 N/mm	GB/T 529

Dimensional Stability	- 4.0% ~ + 1.0%			GB/T 16777
Service Temperature	-35°C min. / +80°C max.			
Foldability at Low Temperature	- 35°C no crack			GB/T 16777
Water Absorption	≤ 5.0%			GB/T 19250
Chemical Resistance	Solution	Retention of tensile strength	Elongation at break	Foldability at low temperature
	Alkali treatment	80%~150%	≥ 450%	- 30°C no crack
	Acid treatment	80%~150%	≥ 450%	- 30°C no crack

SYSTEM INFORMATION

System Structure

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. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.

Layer	Product	Consumption
Primer	Depending on the substrate	Refer to the primer Product Data Sheet
Base Coat	Sikalastic®-619	~1.5 kg/m ²
Reinforcement	Sikalastic® Fleece 80/ Sika Glass Fabric 55G	-
Top Coat	Sikalastic®-619	~1.0 kg/m ²
UV resistant color coating	Sikalastic®-701 or Sikalastic®-571 Eau Top	~0.3 kg

Note: The consumption of the membrane can be increased according to the expected service life requirements.

Note: If the top coat is exposed to UV-light, the use of Sikalastic®-701 will extend the service life of the Product.

Dry film thickness

Theoretical DFT calculation formula:
 $C(\text{kg/m}^2) = [\rho(\text{kg/ltr.}) * d(\mu\text{m})] / [V(\%) * 10]$
 C: theoretical consumption;
 ρ: product density;
 d: theoretical dry film thickness;
 V: solid content by volume (use the number before %, e.g. 80)

APPLICATION INFORMATION

Ambient Air Temperature	+5°C min. / +40°C max.
Relative Air Humidity	5 % min. R.H. / 85 % max. R.H.
Dew Point	Beware of condensation! Condensation may affect adhesion and could affect appearance. The substrate and uncured membrane must be at least 3°C above the dew point.
Substrate Temperature	+5°C min. / +60°C max.
Substrate Moisture Content	≤ 4% pbw moisture content Test method: Sika® -Tramex meter, CM- Measurement or Oven-dry-method. No rising moisture according to ASTM (polyethylene-sheet)

Substrates	Substrate	Primer
	Fibre cement, Cementitious, Concrete, Glazed ceramic tiles, Stone, Unglazed ceramic tiles	Sikafloor® -156 or Sika® Concrete Primer
	Bitumen sheet membranes, Bituminous coatings	Sikalastic® Metal Primer
	Ferrous metals	Sikalastic® Metal Primer
Tack Free Time	≤ 12 hours	GB/T 16777
Drying Time	≤ 24 hours	GB/T 16777

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.

LIMITATIONS

- Do not apply Sikalastic®-619 on substrates with rising moisture.
- On substrates likely to exhibit outgassing, ensure substrate is thoroughly dry and apply during falling ambient and substrate temperatures. If applied during rising temperatures “pin holing” may occur from rising vapour. In very severe case Sikalastic® Primer may assist.
- If Sikalastic®-619 needs to be applied indoor, please make sure that the space has good ventilation.
- Do not apply close to the air intake vent of running air conditioning unit. Turn off or isolate if necessary.
- Areas with high movement, irregular substrates, or timber based roof decks require a complete carrier layer.
- Whilst Sikalastic®-619 is resistant to most commonly encountered atmospheric pollutants, proprietary cleaning solutions and environmental spoilage, the suitability of the product for use in applications with increased chemical resistance requirements should first be established.

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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

Brush: with a soft bristle brush

Roller: with a solvent resistant, “non-fuzzy” roller

SUBSTRATE PREPARATION

The surface must be sound of sufficient strength, clean, dry and free of dirt, oil, grease and other contamination. Depending on the material the substrate must be primed or mechanically cleaned. Grinding may be necessary to level the surface. Suitable substrates are such as: concrete, bituminous felts and coatings, metal, brickwork, asbestos cement, ceramic tiles, wooden substrates. For detailed information regarding substrate preparation and primer chart please refer to Method Statement.

MIXING

Mixing is not required, however if the product is settled or separated on opening, stir Sikalastic®-619 gently but thoroughly in order to achieve a uniform colour. Stirring gently will minimise air entrainment.

APPLICATION

Prior the application of Sikalastic®-619 the priming coat if used must have cured tack-free. For the Waiting Time / Overcoating please refer to the PDS of the appropriate primer. Damageable areas (handrails etc.) have to be protected with tape or plastic wrapping.

Roof Coatings:

Sikalastic®-619 is applied in two coats. Prior to the application of a 2nd coat the indicated waiting time in the table Waiting Time / Overcoating shall be allowed. Spiked roller need to be used in order to reduce bubbling. Roof coatings may need partial reinforcement over areas of stress or predictable movement e.g. joints, overlaps, detailing etc.

Reinforced Roof Waterproofing:

Sikalastic®-619 is applied in combination with Sika® Reemat Premium.

- Apply first coat of approximately 1.5 kg/m² of Sikalastic®-619. Spiked roller need to be used in order to reduce bubbling.
- Work only so far in advance that the material stays liquid.
- Roll in the Sikalastic® Fleece -80/ Sika® Glass Fabric -55G and ensure that there are no bubbles or creases. Overlapping of the reinforcement a minimum 5 cm and ensure overlaps are sufficiently wet to bond.
- The roller may require only a little extra material to keep wetted but no further significant material needs to be added at this stage.

5. After the coat is dry enough to walk on, seal the roof area with second coat of Sikalastic®-619 at a minimum 1 kg/m² per coat.

CLEANING OF TOOLS

Prior the application of Sikalastic®-619 the priming coat if used must have cured tack-free. Damageable areas (handrails etc.) have to be protected with tape or plastic wrapping.

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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