

## PRODUCT DATA SHEET

# Sikalastic®-670 TC

1-component aliphatic polyurethane top coat for Sikalastic® roof waterproofing systems

### DESCRIPTION

Sikalastic®-670 TC is a 1-component, aliphatic polyurethane, UV-stable, solvent base, liquid, cold applied top coat, designed to provide a durable, colour stable reflective finish for Sikalastic® roof waterproofing systems.

### USES

Sikalastic®-670 TC may only be used by experienced professionals.

- UV-stable top coat for Sikalastic® roof waterproofing systems
- Reflective top coat for excellent cool roof characteristics and solar roofs
- Color stable aliphatic PU top coat for use on roofs exposed to ponding water

### FEATURES

- Resistant to UV exposure – reflective and resistant to yellowing
- Highly elastic and crack-bridging – retains flexibility even at low temperatures
- 1-component, easy to apply
- Easily recoated – no stripping is required
- Water vapour permeable – allows the substrate to breathe
- Good resistance to common atmospheric chemicals

### PRODUCT INFORMATION

<b>Composition</b>	Aliphatic polyurethane	
<b>Packaging</b>	1.0 kg, 5.0 kg and 20.0 kg metal pails	
<b>Colour</b>	White (others colours upon request)	
<b>Shelf life</b>	12 months from date of production	
<b>Storage conditions</b>	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +25°C. Always refer to packaging.	
<b>Density</b>	~1.20 kg/l (at 20°C)	(ASTM D1475 / DIN 53217 / ISO 2811)
<b>Viscosity</b>	400 - 800 mPa*s (at 25°C)	(ASTM D2196-86)
<b>Solid content by mass</b>	~68 %	
<b>Shore D Hardness</b>	40 N/mm <sup>2</sup>	(ASTM D2240 / DIN 53505 / ISO R868)
<b>Tensile strength</b>	40 N/mm <sup>2</sup>	(EN ISO 527-3)
<b>Tensile strain at break</b>	>300 %	(EN ISO 527-3)

<b>Solar reflectance</b>	Initial Solar Reflectance	0.79 (+/- 0.02)	(ASTM C1549)
<b>Thermal emittance</b>	Initial Thermal Emittance	0.95 (+/- 0.01)	(ASTM E408)
<b>Solar reflectance index</b>	Initial SRI (Medium Wind)	99 (+/- 1)	(ASTM E1980-11)
<b>Service temperature</b>	Minimum	-20°C	
	Maximum	+90°C	
<b>Consumption</b>	0.2 - 0.6 kg/m <sup>2</sup> in one or two coats, depending on traffic conditions.		
<b>Ambient air temperature</b>	Minimum	+5°C	
	Maximum	+35°C	
<b>Relative air humidity</b>	≤ 80 % r.h.		
<b>Dew point</b>	Beware of condensation. The substrate and uncured membrane must be at least 3°C above dew point to reduce the risk of condensation or blooming of the membrane finish.		
<b>Substrate temperature</b>	Minimum	+5°C	
	Maximum	+35°C	
<b>Substrate moisture content</b>	≤4 % pbw moisture content. Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet)		
<b>Tack free time</b>	6 - 8 hours ( at +25°C)		
<b>Waiting time to overcoating</b>	24 hours		

## 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 use Sikalastic®-670 TC for indoor applications.
- Do not apply Sikalastic®-670 TC on substrates with rising moisture.
- Sikalastic®-670 TC is suitable for permanent water immersion.
- Sikalastic®-670 TC is suitable for roofs with pedestrian traffic (depending on consumption) that are exposed to ponding.
- Do not dilute Sikalastic®-670 TC with any solvent or water.
- Do not apply near to running air intakes of air conditioning units. Switch off units and seal intakes before applying.
- Ensure that temperature does not drop below 5 °C and that relative humidity does not exceed 80 % until the coating has fully cured.
- Do not apply cementitious products (e.g. tile mortar) directly onto Sikalastic®-670 TC.
- Apply Sikalastic® Metal Primer N on bituminous substrates prior to the application of the waterproofing system to prevent migration of volatile bitumen.

## 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

#### Substrate preparation equipment

- High pressure power washer

#### Mixing Equipment

- Electric single paddle mixer

#### Application Equipment

- Brush
- Roller
- Airless spray

## SUBSTRATE PREPARATION

Confirm that the waiting /overcoating time has been achieved on the previously applied waterproofing system Sikalastic® base layer. The base layer must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and loose material. Sikalastic®-670 TC must be applied within 3 days after the application of the base coat. If the overcoating time is exceeded, Sika® Reactivation Primer, Sika® Concrete Primer or Sikalastic®-1 C Primer PU must be applied at a consumption rate of ~100 g/m<sup>2</sup>. For detailed information regarding the application of Sikalastic® waterproofing systems please refer to the corresponding Product Data Sheet and Method Statement.

## MIXING

Prior to application, stir Sikalastic®-670 TC gently but thoroughly for 1 minute in order to achieve a homogeneous mixture. For mixing, an electric single paddle mixer (300-400 r.p.m.) with a spiral blade can be used. Over mixing must be avoided to minimize air entrapment.

## APPLICATION

Sikalastic®-670 TC is applied in one or two coats by roller, brush or airless spray. Consumption is depending on traffic conditions, ranging from 0.2 - 0.6 kg/m<sup>2</sup> in one or two coats. Prior to the application of Sikalastic®-670 TC the roof waterproofing systems must have been installed and cured sufficiently.

## CLEANING OF EQUIPMENT

Clean all tools and application equipment with a suitable thinner (Xylene / MEK / Acetone) immediately after use. Hardened or cured material can only be removed mechanically.

## 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 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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ISO 9001 – LMS  
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All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



### Product Data Sheet

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