BUILDING TRUST

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 breath
- Good resistance to common atmospheric chemicals

PRODUCT INFORMATION

Composition	Aliphatic polyurethane	
Packaging	20.0 kg metal pails	
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 +25°C. Always refer to packaging.	
Colour	Grey	
Density	~1.20 kg/lt (at 20°C)	(ASTM D1475 / DIN 53217 / ISO 2811)
Solid content by mass	~68 %	
Viscosity	400 - 800 mPa*s (at 25°C)	(ASTM D2196-86)
Shore D Hardness	40 N/mm²	(ASTM D2240 / DIN 53505 / ISO R868)
Tensile strength	40 N/mm²	(EN ISO 527-3)
Tensile strain at break	>300 %	(EN ISO 527-3)

Solar reflectance	Initial Solar Reflectance	0.79 (+/- 0.02)	(ASTM C1549)
Thermal emittance	Initial Thermal Emittance	0.95 (+/- 0.01)	(ASTM E408)
Solar reflectance index	Initial SRI (Medium Wind)	99 (+/- 1)	(ASTM E1980-11)
Service temperature	Minimum	-20°C	
	Maximum	+90°C	
Consumption	0.2 - 0.6 kg/m² in one or two coats, depending on traffic conditions.		
Ambient air temperature	Minimum	+5°C	
	Maximum	+35°C	
Relative air humidity	≤ 80 % r.h.		
Dew point	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.		
Substrate temperature	Minimum	+5°C	
	Maximum	+35°C	
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)		
Tack free time	6 - 8 hours (at +25°C)		
Waiting time to overcoating	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 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.
- On bituminous substrates, Sikalastic Metal Primer shall be applied 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.

DIRECTIVE 2004/42/CE LIMITATION OF EMISSIONS OF VOC

According to the EU Directive 2004/42/CE, the maximum allowed content of VOC (product category IIA / i type SB) is 500 g/l (Limits 2010) for the ready to use product.
The maximum content of Sikalastic®-670 TC is < 500 g/l VOC for the ready to use product.

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, Sikalastic®-1 C Primer PU, or other approved suitable primer must be applied in accordance with primer Product Data Sheet. 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 entrainment.

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/m² 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 Thinner C immediately after use. Hardened or cures 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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