BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic®-570 Top Coat

SOLAR REFLECTIVE PU TOP COAT FOR SIKALASTIC® ROOF WATERPROOFING SYSTEMS

DESCRIPTION

Sikalastic®-570 Top Coat is a 1-part, polyurethane, UV-stable, water based, liquid, cold applied top coat, designed to provide a durable, colour stable highly reflective top coat for Sikalastic®-612 and Sikalastic®-614 roof waterproofing systems.

USES

Sikalastic®-570 Top Coat may only be used by experienced professionals.

- UV-stable top coat for Sikalastic®-612 and Sikalastic®-614 roof waterproofing systems
- Highly reflective top coat (traffic white RAL9016) for excellent cool roof characteristics and solar roofs
- Color stable aliphatic PU topcoat for use on roofs not exposed to ponding water

CHARACTERISTICS / ADVANTAGES

- Resistant to UV exposure – highly reflective (RAL9016) and resistant to yellowing
- Highly elastic and crack-bridging – retains flexibility even at low temperatures
- Water based with low VOC content
- 1-part, easy and ready to use
- Easily recoated – no stripping required
- Water vapour permeable – allows the substrate to breath
- Good resistance to common atmospheric chemicals
- 12 months shelf life

SUSTAINABILITY

- Conformity with LEED v2009 SSc 7.2 (Option 1): Heat Island Effect - Roof

APPROVALS / CERTIFICATES

- VOC Content ISO 11890-2, Sikalastic®-570 Top Coat, Eurofins, Test report No. 392-2018-00051201_XI_EN

PRODUCT INFORMATION

Composition	Polyurethane dispersion	
Packaging	5 l (~ 6,15 kg) metal containers 15 l (~ 18,45 kg) metal containers	
Colour	Traffic White (ca.RAL 9016), Grey, Light Red, Beige, Green, Blue	
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 packaging.	
Density	1.23 kg/l (at 23 °C)	(EN ISO 2811-1)
Solid content by weight	~47 % (+23 °C / 50 % r.h.)	
Solid content by volume	~34 % (+23 °C / 50 % r.h.)	

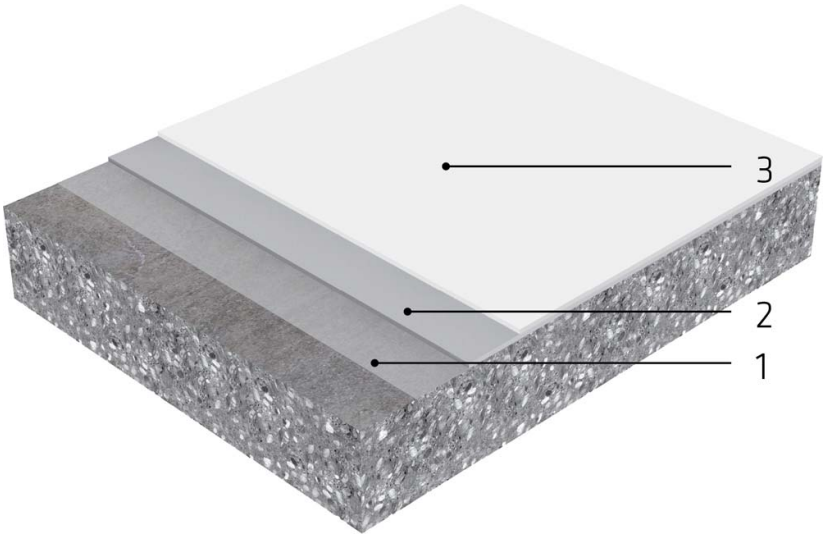
Volatile organic compound (VOC) content	≤ 50 g/l	(ISO 11890-2)

TECHNICAL INFORMATION

Tensile Strength	~15 N/mm² (free film)	(EN ISO 527-3)
Elongation at Break	~250 % (free film)	(EN ISO 527-3)
Solar Reflectance Index	108 All values related to the reflectance/emittance properties provided in this Product Data Sheet refer to the initial (properly cured, non-weathered) status of the product	(ASTM E 1980)
Service Temperature	-20 °C min. / +90 °C max.	

SYSTEMS

System Structure



Sikalastic®-570 Top Coat is applied as UV-stable coating to enhance surface appearance as well as solar reflectivity and extend durability of Sikalastic®-612 and Sikalastic®-614 waterproofing systems.

Layer	Product	Consumption
1. Primer	Refer to PDS of Sikalastic®-612 or Sikalastic®-614	Refer to PDS of the Primer
2. Waterproofing System	Sikalastic®-612 or Sikalastic®-614 applied in two coats, reinforced with Sika Reemat or Sikalastic® Fleece-120	≥ 2.0 l/m² (≥ 2.8 kg/m²) in two coats
3. Top coat	Sikalastic®-570 Top Coat applied in one or two coats	≥ 0.2–0.3 l/m² (≥ 0.25–0.375 kg/m²)

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.

APPLICATION INFORMATION

Ambient Air Temperature	+10 °C min. / +35 °C max.
Relative Air Humidity	80 % max.
Substrate Temperature	+5 °C min. / +60 °C max.

Dew Point

Beware of condensation. Surface temperature during application must be at least +3 °C above dew point.

Substrate Moisture Content

≤ 4 % moisture content.
No rising moisture according to ASTM (Polyethylene-sheet). No water / moisture / condensation on the substrate.

Waiting Time / Overcoating

Before applying Sikalastic®-570 Top Coat on Sikalastic®-612 or Sikalastic®-614 :

Substrate Temperature	Relative humidity	Minimum	Maximum*
+10 °C	50 %	~12 hours	7 days
+20 °C	50 %	~6 hours	7 days
+30 °C	50 %	~4 hours	7 days

* After 7 days the surface must be cleaned and primed with Sika® Bonding Primer.

Before applying Sikalastic®-570 Top Coat on SSikalastic®-570 Top Coat:

Substrate Temperature	Relative humidity	Minimum	Maximum*
+10 °C	50 %	~8 hours	7 days
+20 °C	50 %	~6 hours	7 days
+30 °C	50 %	~2 hours	7 days

*After 7 days the surface must be cleaned and primed with Sika® Bonding Primer.
Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity. Low temperature and high relative air humidity retard curing, while high temperatures and low relative air humidity accelerate curing progression.

Applied Product Ready for Use

Substrate Temperature	Relative humidity	Touch dry	Rain resistant	Full cure
+10 °C	50 %	~4 hour	~8 hours	7 days
+20 °C	50 %	~2 hour	~4 hours	7 days
+30 °C	50 %	~1 hour	~2 hours	7 days

Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity. Low temperature and high relative air humidity retard curing, while high temperatures and low relative air humidity accelerate curing progression.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The applied waterproofing system consisting of Sikalastic®-612/614 must have cured tack free and must be sound, of sufficient strength, clean, dry and free of dirt, oil, grease and other contamination.
Sikalastic®-570 Top Coat must be applied within 7 days after application of the base coat. If the overcoating time is exceeded, Sika® Bonding Primer must be applied at a consumption rate of ~100 g/m².
For detailed information regarding application of Sikalastic®-612 and 614 waterproofing systems please refer to the corresponding Product Data Sheet and Method Statement.

MIXING

Prior to application, stir Sikalastic®-570 Top Coat gently but thoroughly for 1 minute in order to achieve a homogeneous mixture.
Stirring gently will minimise air entrainment.

APPLICATION

Sikalastic®-570 Top Coat is applied in one or two coats, by roller, brush or airless spray. Prior to the application of Sikalastic®-570 Top Coat the roof waterproofing systems must have been installed and cured sufficiently. For waiting time / overcoating refer to the table above.

CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened material can only be mechanically removed.

IMPORTANT CONSIDERATIONS

- Do not apply Sikalastic®-570 Top Coat on substrates with rising moisture.
- Sikalastic®-570 Top Coat is not suitable for permanent water immersion.
- Sikalastic®-570 Top Coat is not suitable for roofs with frequent pedestrian traffic that are exposed to pond-

ing water.
- Do not dilute Sikalastic®-570 Top Coat with any solvent or water.
- Do not apply the product in hot and humid climates such as type A, Cw or Cf according to Koeppen-Geiger classification.
- Ensure good airflow is maintained during the curing process.
- Sikalastic®-570 Top Coat shall not be applied on roofs subject to ponding water over 24 hours or with subsequent periods of frost.
- Ensure that temperature does not drop below 8 °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®-570 Top Coat.
- On bituminous substrates, Sikalastic Metal Primer shall be applied prior to the application of the waterproofing system to prevent migration of volatile bitumen

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.

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.

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.

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 wb) is 140 g/l (Limits 2010) for the ready to use product.
The maximum content of Sikalastic®-570 Top Coat is < 140 g/l VOC for the ready to use product.

LEGAL NOTES

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