

SYSTEM DATA SHEET

SikaRoof® PUR-15

Elastic UV-stable polyurethane hybrid, liquid applied roof waterproofing system

DESCRIPTION

SikaRoof® PUR-15 is a 2-part, cold-applied, polyurethane hybrid liquid applied membrane roof waterproofing system. The system is highly elastic and UV-stable which provides a durable waterproofing solution. Suitable for use in hot and tropical climatic conditions.

USES

SikaRoof® PUR-15 may only be used by experienced professionals.

The product can be used for the following roof waterproofing applications:

- Flat and sloping fully exposed roof structures
- Failing roofs to extend the service life
- New construction and refurbishment projects
- Roofs with numerous details such as penetrations, drains, roof lights and complex geometry
- Cool and solar roofs when used in combination with Sikalastic®-701 (~ RAL 9016)
- Alternative option for small projects where application machinery is not practical

The product can be used on the following substrates:

- Aluminium
- Brass
- Bitumen sheet membranes
- Bituminous coatings
- Bricks
- Cementitious
- Concrete slabs
- Copper
- Existing liquid applied membranes
- Galvanised steel
- Lead
- Ferrous metals
- Stainless steel
- Stone
- Unglazed ceramic tiles

Please note:

- The product is not suitable for permanent water immersion.

CHARACTERISTICS / ADVANTAGES

- Top coat provides resistance to permanent UV exposure
- Reflective roof coating to enhance energy efficiency
- Top coat has low dirt pick up
- Good crack-bridging properties at low temperatures
- Resistant to ponding water
- Easily re-coated when needed - no removal of previous coats required
- Seamless finish
- Cold applied - requires no heat or flame
- Vapour permeable
- Resistant to many common environmental influences
- Available in many colours
- Top coat in-pail tinting available

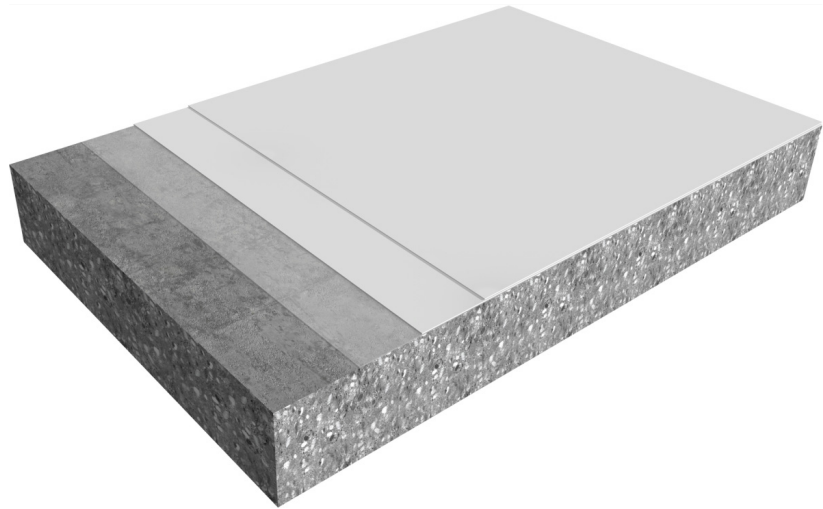
APPROVALS / CERTIFICATES

- Final Solar Reflectance per ASTM C1549, Final Thermal Emittance per ASTM C1371, Final Solar Reflective Index for the top coat Sikalastic®-701, MTL, Report No. 2018-356
- Capillary absorption of water, EN 1062-3, Sikalastic-702, Request AR-2019-0072en, Sika
- CO₂ - Diffusion Flow, EN 1062-6, Sikalastic-702, Request AR-2019-0072en, Sika
- Abrasion resistance AR0.5(Special), Sikalastic®-701, Sikalastic®-702, FACE, Test report No. FC/18/8048
- Reaction to Fire Performance Classification EN 13501, Sikalastic®-702, Report No. WF 415423
- Fire Testing EN 13501-1, Sikalastic®-701, Sikalastic®-702, warringtonfire, Report No.19896B
- Root resistance DIN CEN/TS 14416, Sikalastic®-702, kiwa, Test report No. 0078.0.1-2019e
- Water Vapour Transmission (1.8 mm system), Sikalastic®-701, Sikalastic®-702, 4ward, Report No. R2274

SYSTEM INFORMATION

System structure

SikaRoof® PUR-15



Layer	Product	Consumption
1. Primer	Depends on type of substrate	Refer to individual Product Data Sheet
2. Base Coat	Sikalastic®-702	~2,2 kg/m ²
3. Top Coat	Sikalastic®-701	~0,35 kg/m ²

IMPORTANT

The system structure layers as described in table must not be changed.

Note: Sikalastic®-702 is not resistant to long term UV-light exposure and must be overcoated with Sikalastic®-701 within 4 weeks.

Note: On vertical or inclined surfaces, add up to 2 % of Extender T (by weight) into Sikalastic®-702 to increase sag resistance. Alternatively use Sikalastic®-702 THX.

Note: These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.

Composition

Elastomeric aromatic and aliphatic PU/PUA hybrids

Dry film thickness

~1,8–2,0 mm

TECHNICAL INFORMATION

Tensile strength	~10,0 N/mm ²	(DIN EN ISO 527-3)
Tensile strain at break	~900 %	(DIN EN ISO 527-3)
External fire performance	Broof T1 / Broof T4	(DD ENV 1187)
Reaction to fire	Euroclass E	(EN 13501-1)
Solar reflectance	Initial Solar Reflectance 0,88	(ASTM C1549)
Thermal emittance	Initial Thermal Emittance 0,86	(ASTM C1371)
Solar reflectance index	Initial SRI (Convective Coef- ficient, Medium Wind) 112	(ASTM C1549)

APPLICATION INFORMATION

Ambient air temperature	+5 °C min. / +40 °C max.
Relative air humidity	25 % min. / 85 % max.
Substrate temperature	+10 °C min. / +60 °C max.
Dew point	Beware of condensation. The substrate and uncured applied layers must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the membrane finish.

Substrate moisture content	The following test methods can be used to determine the substrate moisture content: <ul style="list-style-type: none"> ▪ Sika®-Tramex meter ▪ CM-measurement ▪ Oven-dry-method
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Substrate pre-treatment	Note: Confirm adequate surface preparation and Product adhesion, by carrying out a small trial before full application together with adhesion tests as required. Note: For the primer consumption rates and waiting time / overcoating, refer to the appropriate Product Data Sheet. Note: Other substrates must be tested for their compatibility. If in doubt, apply a test area first.
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Substrate primers

Substrate	Primer
Cementitious	Sika® Concrete Primer / Sika® Concrete Primer LO/ Sikafloor®-161/-151 ^A
Brick, Stone	Sika® Concrete Primer / Sika® Concrete Primer LO/ Sikafloor®-161/-151 ^A
Concrete slabs, Unglazed ceramic tiles	Sika® Concrete Primer / Sika® Concrete Primer LO/ Sikafloor®-161/-151 ^A
Bitumen sheet membrane, Bituminous coatings	Sikalastic® Metal Primer
Aluminium, Brass, Copper, Galvanised steel, Lead, Ferrous metals, Stainless steel	Sikalastic® Metal Primer
Existing SikaRoof® Liquid Applied Membrane	Sika® Reactivation Primer / Sika® Concrete Primer

A: Sikafloor®-161 and Sikafloor®-151 need to be broadcasted with Sikadur®-507.

PRODUCT INFORMATION

Packaging	Refer to individual Product Data Sheet
Shelf life	Refer to individual Product Data Sheet
Storage conditions	Refer to individual Product Data Sheet

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.

FURTHER INFORMATION

- Sika Method Statement: SikaRoof® PUR systems
- Individual Product Data Sheets

IMPORTANT CONSIDERATIONS

Installation work must only be carried out by Sika trained and approved contractors, experienced in this type of application.

- If temporary heating is required, do not use gas, oil, paraffin or other fossil fuel heaters. These produce large quantities of both carbon dioxide and water vapour, which may adversely affect the finish. For heating, use only electric powered warm air blower systems.

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.

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: Sika UAE LLC,
Sika Gulf B.S.C. (c),
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Sika Qatar LLC
ISO 14001: Sika UAE LLC,
Sika Gulf B.S.C. (c),
Sika Saudi Arabia Co. Ltd
OHSAS: Sika UAE LLC,
Sika Gulf B.S.C. (c)

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 OHSAS
18001.

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