BUILDING TRUST

PRODUCT DATA SHEET

# Sikalastic®-702

Elastic polyurea hybrid liquid applied membrane for roof waterproofing

## PRODUCT DESCRIPTION

Sikalastic®-702 is a 2-part, elastic, hybrid polyurea based liquid applied roof waterproofing membrane. It is part of the SikaRoof® PUR liquid applied roofing solutions range of products.

## USES

Sikalastic®-702 installation works to be carried out only by Sika Approved Contractors. Please observe information given by Product Data Sheets.

Sikalastic®-702 may only be used by experienced professionals.
Designed for the following roof waterproofing applications:

- Flat fully exposed roof structures
- New construction and refurbishment projects
- Roofs with numerous details such as penetrations, drains, roof lights and complex geometry
- Balcony and terrace decks underneath a protective layer (i.e. ballast, paving slabs, tiles)
- Alternative option for small projects where application machinery is not practical

## CHARACTERISTICS / ADVANTAGES

- Cold applied - requires no heat or flame
- One layer application
- High elasticity and elongation at break
- No reinforcement required
- Self-smoothing
- Applied by notched rubber or metal squeegees
- Good adhesion to many substrates with the appropriate primers
- Can be covered with an aliphatic top coat
- Resistant to ponding water

## APPROVALS / STANDARDS

- Root resistance DIN CEN/TS 14416, Sikalastic®-702, kiwa, Test report No. 0078.0.1-2019e
- CE Marking and Declaration of Performance to ETAG 005-1-6:2004, Liquid-applied roof waterproofing using kits based on polyurethane
- Fire Testing EN 13501-5, Sikalastic®-701, warringtonfire, Report No. 19895B, 19895C
- Fire Testing EN 13501-1, Sikalastic®-701 warringtonfire, Report No.19896B

## TECHNICAL INFORMATION

| | |
|---|---|
| **Shore A Hardness** | ~75 |
| **Resistance to Root Penetration** | Root resistant |
| **Tensile Strength** | ~10.0 N/mm² |
| **Elongation at Break** | ~900 % |
| **Tensile adhesion strength** | ~2.5 N/mm²<br>Value measured using Sika® Concrete Primer LO |
| **Tear Strength** | ~13.8 N/mm² |
| **External Fire Performance** | $B_{roof}$ T1 / $B_{roof}$ T4 (ENV 1187) |
| **Reaction to Fire** | Euroclass E (EN 13501-1) |
| **Chemical Resistance** | Resistant to many chemical based cleaners. Contact Sika Technical Services for additional information. |

## PRODUCT INFORMATION

| | |
|---|---|
| **Chemical Base** | Elastomeric PU/PUA hybrid |
| **Packaging** | Parts A+B: 20.1 L (25 kg)<br>Part A 4.7 L ( 9.2 kg)<br>Part B 15.5 L (15.8 kg)<br>Refer to current price list for packaging variations |
| **Shelf Life** | 12 months from date of production |
| **Storage Conditions** | Product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging. |
| **Colour** | Dark grey<br>When product is exposed to direct sunlight (UV), there may be some dis-colouration.<br>Additional UV protection can be achieved by application of a topcoat: Sikalastic®-701. This must be applied within 7 days over Sikalastic®-702 otherwise the performance may be affected. |
| **Density** | ~1.24 kg/L (Mixed A+B) |
| **Solid content by mass** | ~100 % (Part A & B) |
| **Solid content by volume** | ~100 % (Part A & B) |
| **Volatile organic compound (VOC) content** | ~0.07 g/L |

## SYSTEM INFORMATION

**System Structure**

**System**

- Sikalastic®-702
- Refer to the System Data Sheet: SikaRoof® PUR Systems
- Primers

| Substrate | Primer |
|---|---|
| Cementitious substrates | Sika® Concrete Primer LO or Sikafloor®-161 lightly broadcast with quartz sand, 0.3–0.8 mm |
| Ceramic tiles (unglazed), and concrete slabs | Sika® Concrete Primer LO |
| Bituminous felt | Sikalastic® Metal Primer N |
| Bituminous coatings | Sikalastic® Metal Primer N |
| Metals & Ferrous or galvanised metals, lead, copper, aluminium, brass or stainless steel | Sikalastic® Metal Primer N |

For the primer consumption rates and waiting time / overcoating, refer to the appropriate Product Data Sheet.
Other substrates must be tested for their compatibility. If in doubt, apply a test area first.

**Dry film thickness**

Refer to the System Data Sheet: SikaRoof® PUR Systems

**System Performance**

Refer to the System Data Sheet: SikaRoof® PUR Systems

## APPLICATION INFORMATION

**Mixing Ratio**

Part A : Part B = 1 : 1.72 (by weight)

**Product Temperature**

+10 °C min. / +25 °C max.

**Ambient Air Temperature**

+2 °C min. / +40 °C max.

**Relative Air Humidity**

35 % r.h. min / 80 % r.h. max.

**Dew Point**

Beware of condensation. The substrate and uncured applied membrane must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the membrane finish.

**Substrate Temperature**

+2 °C min. / +40 °C max.

**Substrate Moisture Content**

The product can be applied on substrates with a moisture content of ≤ 4 % part by weight. The substrate must be visibly dry with no standing water.
The following test methods can be used to determine the substrate moisture content:

- Sika®-Tramex meter
- CM-measurement
- Oven-dry-method

No rising moisture according to ASTM (Polyethylene-sheet).

**Pot Life**

~25 minutes at +20 °C Pot life will decrease at higher temperatures and increase at lower temperatures.

**Applied Product Ready for Use**

| Temperature | Relative Humidity | Rain Resistant | Foot Traffic/Overcoating | Full Cure |
|---|---|---|---|---|
| +10 °C | ~50 % | ~3 hours | ~10 hours | ~28 hours |
| +20 °C | ~50 % | ~2 hours | ~6 hours | ~24 hours |
| +30 °C | ~50 % | ~1 hour | ~4 hours | ~20 hours |

## VALUE BASE

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 DOCUMENTS

- Sika Method Statement: SikaRoof® PUR roof waterproofing systems

## LIMITATIONS

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

- Products must only be applied in accordance with their intended use.
- Do not apply on substrates with rising moisture.
- On substrates likely to exhibit outgassing, apply during falling ambient and substrate temperature. If applied during rising temperatures “pin holing” may occur from rising vapour. Sikalastic® Primer may assist with reducing or eliminating this effect.

## ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

**Regulation (EC) No 1907/2006 (REACH) - Mandatory training**

As from 24 August 2023 adequate training is required before industrial or professional use of this product. For more information and a link to the training visit https://irl.sika.com/en/knowledge-hub-sika-ireland/pu-training.html.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

- The supporting structure must be of sufficient structural strength to apply all new and existing layers of the roof build-up. Complete roof system must be designed and secured against wind uplift loadings.
- Refer to the Sika Method Statement: SikaRoof® PUR roof waterproofing systems
- Suitable substrates: Concrete, bituminous felts and coatings, metal, brickwork, asbestos cement, ceramic tiles.

### MIXING

Refer to the Sika Method Statement: SikaRoof® PUR roof waterproofing systems

### APPLICATION

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.
Refer to the Sika Method Statement: SikaRoof® PUR roof waterproofing systems

### CLEANING OF TOOLS

Clean all tools and application equipment with Thinner C or similar, immediately after use. Hardened 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 the 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.

**SIKA IRELAND LIMITED**
Ballymun Industrial Estate
Ballymun
Dublin 11, Ireland
Tel: +353 1 862 0709
Web: www.sika.ie
Twitter: @SikaIreland