BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic®-702 THX

Elastic polyurea hybrid liquid applied membrane for roof waterproofing detailing

PRODUCT DESCRIPTION

Sikalastic®-702 THX is a 2-part, elastic, thixotropic, manually applied, hybrid polyurea based liquid applied membrane for roof waterproofing detailing work.

USES

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

The product can be used for the following roof or deck waterproofing applications:
- Horizontal and vertical detailing around penetrations, drains, roof lights and complex geometries

The product can be used on the following substrates:
- Aluminium
- Fibre cement
- Cementitious
- Concrete
- Concrete slabs
- Bitumen sheet membranes
- Bituminous coatings
- Bricks
- Galvanised steel
- Lead
- Metal
- Stainless steel
- Unglazed ceramic tiles

Please note:
- If used in areas exposed to permanent UV-light, the Product must be overcoated with a UV resistant top coat.

CHARACTERISTICS / ADVANTAGES

- Seamless finish
- Easily detailed around complex geometries
- Cold applied - requires no heat or flame
- Horizontal and vertical one-layer application
- High elasticity and elongation at break
- No reinforcement required
- Applied by brush, roller or trowel
- Good adhesion to many substrates with the appropriate primers
- Can be overcoated with an aliphatic topcoat
- Resistant to ponding water

TECHNICAL INFORMATION

Shore A Hardness	75
Tensile Strength	7.0 N/mm²
Elongation at Break	~750 %
Tensile adhesion strength	~2.5 N/mm² Value measured over Sika® Concrete Primer LO applied to concrete.
Chemical Resistance	Resistant to many chemical-based cleaners. Contact Sika Technical Services for additional information.
Behaviour after Artificial Weathering	▪ Limited resistance to UV-induced degradation (7 days) ▪ Additional colour stability from UV exposure can be achieved by application of a Top coat: Sikalastic®-701

PRODUCT INFORMATION

CSI / CSC MasterFormat®	jhunf6fb87dfr
Chemical Base	Elastomeric PU/PUA hybrid
Packaging	Parts A+B: 8.0 L (10 kg) Part A — 1.8 Litres (3.6 kg) Part B — 6.3 Litres (6.4 kg) 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 When product is exposed to direct sunlight (UV), there may be some discolouration. Additional UV protection can be achieved by application of a topcoat: Sikalastic®-701. This must be applied within 7 days over Sikalastic®-702 THX otherwise the performance may be affected.
Density	~1.26 kg/l (Mixed A+B) (DIN EN ISO 2811-11)
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 THX
- Refer to the System Data Sheet: SikaRoof® PUR Systems
- Primers

Substrate	Primer
Cementitious substrates	Sika® Concrete Primer (LO) or Sikafloor®-151 lightly broadcast with quartz sand, 0.3–0.8 mm
Concrete slabs, Unglazed ceramic tiles	Sika® Concrete Primer (LO) or Sikafloor ®-151 lightly broadcast with quartz sand, 0.3–0.8 mm
Bitumen sheet membrane	Sikalastic® Metal Primer N
Bituminous coatings	Sikalastic® Metal Primer N
Aluminium, Brass, Copper, Galvanised steel, Lead, Metal, Stainless steel, Untreated steel	Sikalastic® Metal Primer N

Other substrates or primers must be tested for their compatibility.
If in doubt, apply a test area first.

Dry film thickness

0.8 mm DFT. Multiple layer application is possible.

APPLICATION INFORMATION

Mixing Ratio

Part A:Part B = 1:1.78 (by weight)

Consumption

~1.0 kg/m² for 0.8 mm DFT
This figure is theoretical and does 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.

Ambient Air Temperature

+5 °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

+5 °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

~35 minutes at +20 °C Note:Pot life will decrease at higher temperatures and increase at lower temperatures.

Tack Free Time

~3 hours at +20 °C Note: Time is approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

Applied Product Ready for Use

Temperature	Relative Humidity	Rain Resistant	Foot Traffic/Overcoating	Full Cure
+10 °C	50 %	~2 hours	~8 hours	~28 hours
+20 °C	50 %	~1 hours	~5 hours	~24 hours
+30 °C	50 %	~1 hours	~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

- Refer to the 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.

- Do not apply on substrates with rising moisture.
- If applied on porous substrates during rising temperatures, pinholes may occur from rising air. Apply during falling temperatures. 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.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

IMPORTANT
The supporting structure must be of sufficient structural strength to support the new and existing layers of the roof build-up. The complete roof system including existing layers must be designed and secured against wind uplift loadings.
Refer to the Sika Method Statement: SikaRoof® PUR Roof Waterproofing Systems

MIXING

Refer to the Sika Method Statement: SikaRoof® PUR Roof Waterproofing Systems

APPLICATION

Refer to the Sika Method Statement: SikaRoof® PUR Roof Waterproofing Systems.

CLEANING OF TOOLS

Clean all tools and application equipment with Thinner C, 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.

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