BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic®-702 THX

Liquid 2-component, cold applied, thixotropic, elastic polyurea hybrid for detailing liquid applied membrane roofing/waterproofing

PRODUCT DESCRIPTION

Sikalastic®-702 THX is a two component, elastic, thixotropic, hand applied, polyurea based liquid membrane for roofing/waterproofing detail work.

USES

Sikalastic®-702 THX may only be used by experienced professionals.

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

Please note:
- If used in areas exposed to permanent UV-light, the Product must be overcoated with UV resistant top coat of Sikalastic® 701SF

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
- Reinforced or unreinforced systems, as required
- Applied by brush, roller or trowel
- Good adhesion to many substrates with the appropriate primers
- Resistant to ponding water

APPROVALS / STANDARDS

- ASTM C836-18
- ANSI A118.10 - (load bearing Thin-Set Ceramic Tile & Stone)
- ANSI A118.12 - (crack isolation Thin-Set Ceramic Tile & Stone)

PRODUCT INFORMATION

Chemical Base	Elastomeric PU/PUA hybrid

Packaging	Part A	.47 gal (1.8 L)
	Part B	1.53 gal (6.3 L)
	Part A + B	2 gal (8.0 L)
Color	Dark Grey	
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 +41°F (+5°C) and +86°F (+30°C). Always refer to packaging.	
Density	1.159 g/mL	(ASTM D1475)
Volatile organic compound (VOC) content	3.15 g/L	(ASTM D3960/EPA Method 24)
Solid content by mass	~100 % (Part A+B)	
Solid content by volume	~100 % (Part A+B)	

TECHNICAL INFORMATION

Shore Hardness	96 (Pass)	(ASTM D2240)
Testing	75	(BS ISO 7619)
Tensile Strength	7,0 N/mm²	(DIN EN ISO 527-3)
Elongation at Break	~750 %	(DIN EN ISO 527-3)
Tensile Adhesion Strength	~2,5 N/mm² Value measured over Sika® Concrete Primer LO (UK) applied to concrete.	(DIN EN ISO 4624)
Crack Bridging Ability	Pass	(ASTM C1305)
Chemical Resistance	Resistant to many chemicals. Contact Sika Technical Services for additional information.	
Retention of Properties after Heat Ageing	Pass	(ASTM C1522)
Behavior after Artificial Weathering	▪ Limited resistance to UV-induced degradation (7 days) ▪ Additional color stability from UV exposure can be achieved by application of a Top coat: Sikalastic®-701SF	
Adhesion in peel	1.6 lbf (Pass)	(ASTM C794)

APPLICATION INFORMATION

Mixing Ratio	Part A:Part B = 1:1,78 (by weight)
Coverage	~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	35.6°F (+2°C) min. / 104°F (+40°C) max.
Relative Air Humidity	35 % min. / 80 % max.
Dew Point	Beware of condensation. The substrate and uncured applied membrane must be at least 35.6°F(+2°C) and 5°F above the dew point (air and substrate) to

	reduce risk of condensation or blooming on the membrane finish.
Substrate Temperature	35.6°F (+2°C) min. / 140°F (+40°C) max.
Substrate Moisture Content	Can be applied on substrates with a moisture content of ≤ 4 %. 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
Pot Life	~35 minutes at +68°F (+20°C) Note:Pot life will decrease at higher temperatures and increase at lower temperatures.
Tack Free Time	~3 hours at 68°F (+20°C) Note:Time is approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

Test Results

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

SYSTEM INFORMATION

System Structure

System
- Substrate
- Primer
- Sikalastic®-702 THX
- UV Protection - Sikalastic® 701SF

Substrate	Primer
Cementitious substrates	Sika® Concrete Primer lightly broadcast with quartz sand, 0,3–0,8 mm
Concrete slabs	Sika® Concrete Primer lightly broadcast with quartz sand, 0,3–0,8 mm
Bitumen sheet membrane	Sikalastic® EP Primer/Sealer
Bituminous coatings	Sikalastic® EP Primer/Sealer
Aluminium, Brass, Copper, Galvanised steel, Lead, Metal, Stainless steel, Untreated steel	Sikalastic® EP Primer/Sealer

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

Dry film thickness

40 mils (dft). Multiple layer application is possible.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

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.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

- 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
- Suitable substrates: Concrete Slabs, Concrete, Cementitious, Metals, Asphaltic BUR's, bituminous felts and coatings, brickwork, asbestos cement
- All existing surfaces must be sound, well addered and/or completely attached to stucture.
- All deleterious materials must be removed and replaced with like in kind

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.

SURFACE PREPARATION

Substrate Pre-Treatment
Refer to Priming Guide to select primer for properly evaluated and prepared substrate. Refer to separate primer Product Data Sheet for application methods, coverage rates, cure times and recoat windows. Always allow primer to cure thoroughly before applying detail or base resin layer.

Sikalastic® -702 THX Priming Guide

Substrates and Primer Options
Concrete *1
Sikalastic® GDC Primer
Sikalastic® EP Primer/Sealer
Lightweight Structural Concrete *1
Sikalastic® GDC Primer
Sikalastic® EP Primer/Sealer
Brick *3
Sikalastic® EP Primer/Sealer
Bituminous Substrate Asphalt, Bituminous Felts, Bituminous Coatings, Granulated or Smooth SBS & Aged APP Cap Sheets *2,3
Sikalastic® EP Primer/Sealer
Wood - Timber & Plywood *4
Sikalastic® EP Primer/Sealer
Metal *3 Aluminium, Galvanized, Cast Iron, Copper, Lead, Brass, Stainless Steel, Steel, Zinc
Sikalastic® EP Primer/Sealer
Pre-Coated Metal *3 Paints & Coatings *3
Sikalastic® EP Primer/Sealer

***Consult Sika**
1 New cementitious substrates must be Portland base and be cured min. 28 days.
2 The presence of volatile bitumen may cause discoloration of Sikalastic® if not properly primed.
3 Surface evaluation and field adhesion testing.
4 Pressure treated lumber consult Sikatesting.

MIXING

IMPORTANT Do not dilute.
MIXING PROCEDURE
1. Mix Part A (resin) with a mechanical mixer (Jiffy) at slow speed until the colored pigment is dispersed and a uniform color is achieved.
2. Add Part B (hardener) to Part A.
3. Using a mechanical mixer (Jiffy) at slow speed, mix Part A + B continuously for ~3 minutes until a uniformly colored mix is achieved. **IMPORTANT** Do not mix excessively.
4. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing

APPLICATION

Detailing

Sloped & Vertical Surfaces
Apply Sikalastic 702 THX as the base resin.

Non-Structural Cracks Up To 1/16"
Detail application not necessary. Apply embedment/base resin layer per instruction.

Non-Structural Cracks Between 1/16" and 1/4"
Rout and seal with Sikaflex® sealant. Apply 3'' Sika® Joint Tape SA centered over the crack. Apply embedment/base resin layer per instruction.

Cracks and Joints Between 1/4" and 1" and Above
Consult Sika

Transitions Between Dissimilar Materials Apply
Sika® Joint Tape SA centered over edge or PAREX Synergy Reinforcing Mesh 355 set in a base coat of Sikalastic 702 THX. Apply embedment/base resin layer per instruction

CLEANING OF TOOLS

Clean all tools and application equipment with Thinner

C, immediately after use. Hardened material can only be removed mechanically.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- **KEEP CONTAINER TIGHTLY CLOSED**
- **KEEP OUT OF REACH OF CHILDREN**
- **NOT FOR INTERNAL CONSUMPTION**
- **FOR INDUSTRIAL USE ONLY**
- **FOR PROFESSIONAL USE ONLY**

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