

PRODUCT DATA SHEET

Sikalastic®-701 SF

Liquid 2-component cold applied polyaspartic top coat membrane for roofing and waterproofing systems

PRODUCT DESCRIPTION

Sikalastic®-701 SF is a two component, 100% solids, low odor, high performance, polyaspartic top coat for Sika® Liquid Applied Membrane roofing/waterproofing systems.

USES

Sikalastic®-701 SF may only be used by experienced professionals.

- This product is used as a UV resistant top coat for Sikalastic®-702
- Newly applied or renovation of existing membranes
- Flat and sloped roofs
- Walkways
- Plaza Decks, Terraces
- Chemical containment and cooling tower areas

CHARACTERISTICS / ADVANTAGES

- Easy application, by roller or squeegee
- Self-smoothing
- UV stable and good yellowing resistance provides long term color stability
- Very good resistance to weathering
- High gloss finish
- Multi chemical resistant
- Low surface soiling
- Easy to clean and low maintenance
- Low odor
- Very good solar reflectance making it suitable for cool roofs
- Resistant to ponding water
- Very low VOC content

APPROVALS / STANDARDS

- CRRC

PRODUCT INFORMATION

Chemical Base	Polyaspartic resin	
Packaging	Part A	.7 gal (2.65 L) container
	Part B	.49 gal (1.85 L) container
	Part A+B	1.19 gal (4.5 L) kit
Color	White	
Shelf Life	Part A	24 months from date of production
	Part B	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 41°F (+5 °C) and 86°F (+30 °C). Always refer to packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.		
Density	1.419 g/mL	(ASTM D1475)	
Volatile organic compound (VOC) content	1.41 g/L (0.012 lb/gal)	(ASTM D3960/EPA Method 24)	
Solid content by mass	Part A	100 %	
	Part B	100 %	
Solid content by volume	Part A	100 %	
	Part B	100 %	

TECHNICAL INFORMATION

Shore D Hardness	53	(ASTM D2240)	
Tensile Strength	2,378 psi	(ASTM D412)	
Tensile % Elongation	103%	(ASTM D412)	
Tear Strength	534 psi	(ASTM D624)	
External Fire Performance	B _{roof} (T1) B _{roof} (T4)	(CEN/TS 1187)	
Chemical Resistance	Resistant to many chemicals. Contact Sika Technical Service for additional information.		
Water Vapor Transmission	0.28 Perms	ASTM E96 (Method B)	
Solar Reflectance	Initial Rating 0.86 Rapid Rating 0.73	white white	(CRRC)
Thermal Emittance	Initial Rating 0.91 Rapid Rating 0.90	white white	(CRRC)
Solar Reflectance Index	Initial Rating 0.856 Rapid Rating 0.929	white white	(CRRC)

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B by weight	2.1 : 1	
Coverage	160-133 sq/ft per gallon at 10-12 mils (0.30 kg/m ²) applied in a single coat		
Product Temperature	Maximum	104°F (+40°C)	
	Minimum	50°F (10°C)	
Ambient Air Temperature	Maximum	104°F (+40°C)	
	Minimum	35.6°F (+2°C)	
Relative Air Humidity	Temperature	Minimum	Maximum
	Above 68°F (+20°C)	35 %	80 %
	Below 68°F (+20°C)	45 %	80 %

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	Maximum	104°F (+40°C)		
	Minimum	35.6°F (+2°C)		
Substrate Moisture Content	Refer to the individual Product Data Sheet.			
Pot Life	Tested at 68°F (+20°C)	30 minutes		
	Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.			
Tack Free Time	Tack free time (tested at 68°F (+20°C) and 50 % RH)	90 minutes		
	Hard drying time (tested at 68°F (+20°C) and 50 % RH)	120 minutes		
	Final drying time (tested at 68°F (+20°C) and 50 % RH)	180 minutes		
	Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.			
Waiting / Recoat Times	Curing conditions	Overcoating time		
	50°F (+10°C) and 50 % RH	180 minutes		
	68°F (+20°C) and 50 % RH	180 minutes		
	86°F (+30°C) and 50 % RH	120 minutes		
	Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.			
Drying Time	Curing conditions	Rain resistant	Foot traffic	Full cure
	50°F (+10°C) and 50 % RH	75 minutes	180 minutes	1 day
	68°F (+20°C) and 50 % RH	60 minutes	180 minutes	1 day
	86°F (+30°C) and 50 % RH	45 minutes	120 minutes	16 hours
	Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.			

SYSTEM INFORMATION

System Structure	Exposed System - Chemical Containment or Cooling Tower Areas with Sikalastic - 702/701 SF	
		Sikalastic Warranty 20-Year
	1. Primer	See Priming Guide**
	2. Base Layer Sikalastic 702	80 mils (wft)**
	3. Top Layer Sikalastic 701 SF	10-12 mils (wft)
	Exposed Unreinforced System with Sikalastic - 702/701 SF	
		Sikalastic Warranty 20-Year
	1. Primer	See Priming Guide**
	2. Base Layer Sikalastic 702	80 mils (wft)**
	3. Top Layer Sikalastic 701 SF	10-12 mils (wft)

Optional Reinforced Systems - 702 or 702/701 SF (local or fully reinforced)***

	Sikalastic Warranty 20-Year
1. Primer	See Priming Guide**
2. Base Layer Sikalastic 702	40 mils (wft)**
3. Reinforcement	PAREX Synergy Reinforcing Mesh 355
4. Top Layer Sikalastic 702	40 mils (wft)**
5. Top Layer (UV Protection) 701 SF	10-12 mils (wft)**

**Allow each layer to cure before applying the consecutive layer.

*****Localized Reinforcement:** Prior to applying the specified coating system. install Sika Joint Tape SA to primed substrate. Or apply PAREX Synergy Reinforcing Mesh 355 set in the wet base coat of Sikalastic 702 or Sikalastic 702 THX. Center the reinforcement over all laps, seams, cracks, joints and transitions of dissimilar material.

Note:

- For unreinforced system, a substrate evaluation is required
- Approved substrates: Concrete Slabs, Concrete, Cementitious, Metals, PVC
- Sikalastic 702 THX is required for all sloped & vertical surfaces
- Sikalastic 702 & 702 THX must be overcoated within 48 hrs. with Sikalastic 701 SF
- Where slip resistance or walkway is required, broadcast to refusal a min. 16/30 or 20/40 oven dried silica sand into the second 701 SF top coat while still wet

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.

- Minimum age of concrete must be 28 days depending on curing and drying conditions
- Do not thin with solvents
- Do not store materials outdoors directly exposed to sunlight and moisture
- Cover and protect material with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Observe temperature storage and conditioning requirements
- Do not apply to substrate surfaces where moisture vapor transmission will occur during application and cure. This condition may be checked using ASTM D 4263 (Polyethylene sheet method)

- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Allow sufficient time for the substrate to dry after rain or inclement weather, as there is the potential for bonding problems
- On substrates likely to exhibit outgassing apply during falling ambient and substrate temperature. If applied during rising temperature pinholing or blistering may occur
- Do not use for indoor applications unless sufficient air flow and ventilation are provided to prevent odors and/or vapors from leaving the immediate work area.
- Precautions should be taken to prevent odors and/or vapors from entering the building/structure, including but not limited to turning off and sealing air intake vents or other means of ingress during product application
- For areas with direct exposure to heavy or frequent foot traffic, an additional wear coat protection with slip resistant aggregate is required
- Opening to traffic prior to cure may result in loss of aggregate or permanent staining and subsequent premature failure
- Do not apply cementitious products, such as tile mortar directly onto Sikalastic®- 701. See Sikalastic®- 702 or Sikalastic®-702 THX Product Data Sheet

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BUILDING TRUST



- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system
- When applying over existing coatings or membranes compatibility and adhesion testing and subsequent approval by Technical Services is required
- On grade concrete decks should not be covered with Sikalastic® membrane systems
- Unvented metal pan, split/sandwich slab with encapsulated membrane and/or insulation, cinder fill decks, and lightweight insulating concrete deck overlays should not be covered with Sikalastic® systems without additional deck evaluation and subsequent approval by Technical Services
- Not recommended for use over ceramic tile

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

Sikalastic® 702/701SF System

SUBSTRATE PREPARATION

Preconditions

Confirm waiting time to overcoating has been achieved for the previously applied system base layer.

1. If the maximum overcoating time of the base layer is exceeded, prepare the surface of the existing coating using mechanical grinding equipment.
2. Remove dust and contamination from the prepared surface using vacuum extraction equipment.

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® 702/701SF SYSTEM PRIMING GUIDE

See priming guide on Product Data Sheet for Sikalastic® - 702 and Sikalastic® 702 THX

MIXING

IMPORTANT

Do not dilute.

RESIN 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

PRIMER MIXING

Refer to individual primer Product Data Sheets for proper mixing instruction

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.

Base Resin Layer

Apply mixed Sikalastic® -702 using a notched squeegee, roll with a spiked pin roller and allow to cure. Cure a minimum 6 hours at 70 °F and 50 % R.H. or until tack free before top resin layer. Keep clean and dry and apply top resin layer within 48 hours. If window of 48 hours is exceeded but less than 7-days clean with non-sudsing detergent, clean water rinse, and allow to dry prior to application of Sika® Reactivation Primer. If 7 or more days has lapsed a light surface grinding is required. Surface must be clean and dry prior to applying Sika® Reactivation Primer and top coat resin. Sikalastic 702 must be covered with overburden or a final top coat resin of Sikalastic 701 SF.

Base Embedment Layer with PAREX Synergy Reinforcing Mesh 355

Apply mixed Sikalastic® -702 using a notched squeegee, roll with a spiked pin roller, embed the Parex

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reinforcement into wet base coat and back roll or trowel to fully encapsulate the reinforcement, allow to cure. Cure a minimum 6 hours at 70 °F and 50 % R.H. or until tack free before applying Sikalastic 702 top resin base layer. Keep clean and dry and apply top resin base layer within 48 hours. If window of 48 hours is exceeded but less than 7-days clean with non-sudsing detergent, clean water rinse, and allow to dry prior to application of Sika® Reactivation Primer. If 7 or more days has lapsed a light surface grinding is required. Surface must be clean and dry prior to applying Sika® Reactivation Primer and Sikalastic 702 top coat base resin. Sikalastic 702 must be covered with overburden or a final top coat resin of Sikalastic 701 SF.

Aggregate Surfacing

For foot traffic and cementitious overburden adhesion key. Supplemental aggregate surfacing is required for all applications that will experience direct foot traffic such as balconies, terraces, walkways, and plazas. It is also recommended for areas that experience maintenance foot traffic. Aggregate surfacing is applied in a supplemental resin layer after the Sikalastic membrane has been installed. Aggregate is not applied into the roofing/waterproofing resin top coat.

Full Broadcast and Seal Option

The Full Broadcast and Seal option is intended for use for applications where both enhanced slip resistance and physical protection of the roofing membrane are required. Apply Sikalastic®- 701 SF resin at 10-12 mils wet film thickness to the installed, cured membrane system. While the supplemental resin application is still wet broadcast to rejection (full broadcast/beach) with kiln dried, iron free aggregate. Remove excess aggregate after cure. Seal with an additional coat of Sikalastic 701 SF (10-12 mils wft).

Aggregate Selection

Use clean, rounded or semi-angular, oven dried quartz sand that meets a minimum hardness of 6.5 per the Moh's scale. The aggregate should be supplied in prepackaged bags and must be free of metallic or other contaminants. Recommended particle size gradations are 16–30 or 20–40 mesh

Protected Membrane

Assemblies install Sika drainage mat over the Sikalastic®-702 or Sikalastic®-702/701 SF waterproofing system prior to adding the extruded polystyrene insulation layer. No aggregated membrane surfacing is required.

Concrete Pavers with Pedestal Supports

Install Sika drainage mat over the Sikalastic®-702 or Sikalastic®-702/701 SF waterproofing system to provide additional protection of the membrane under the pedestal supports.

CLEANING OF TOOLS

Clean all tools and application equipment with water 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

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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