

## PRODUCT DATA SHEET

# Sikalastic®-624 WP

Single component alkali resistant saturating resin for Sikalastic® RoofPro waterproofing systems

### PRODUCT DESCRIPTION

Sikalastic®-624 WP is a cold applied, highly elastic, aliphatic, single component, alkali resistant, moisture triggered polyurethane resin designed for easy application as part of Sikalastic® RoofPro waterproofing systems.

### USES

- Embedment and top resin for Sikalastic® RoofPro waterproofing systems reinforced with Sika Reemat
- Saturating resin for Sikalastic® RoofPro waterproofing systems reinforced with Sika Fleece
- Typically applied in Sikalastic® RoofPro Direct, Plaza, and Vegetated systems for both new construction and refurbishment
- Ideal for applications involving cementitious overlays and tile mortar

### CHARACTERISTICS / ADVANTAGES

- Proven technology with over 30 year track record
- Single component - no mixing and ready to use
- Fully reinforced with highly conformable Sika Reemat or Sika Fleece
- Moisture-triggered chemistry that is rapidly weatherproof after application
- Resistant to ponding water
- Highly elastic and crack bridging
- Seamless and fully adhered
- Vapor permeable
- UV resistant and non-yellowing
- Abrasion and chemical resistant
- Alkali resistant formulation

### APPROVALS / STANDARDS

- Miami Dade
- ASTM C836
- ASTM E-108
- Florida Building Code

### PRODUCT INFORMATION

<b>Chemical Base</b>	Single component, moisture triggered aliphatic Polyurethane
<b>Packaging</b>	5 gal. (19 L) pail
<b>Shelf Life</b>	9 months
<b>Storage Conditions</b>	Store dry between 35 °F and 77 °F (2–25 °C). Condition material to 50–77 °F (10–25 °C) before using for ease of application
<b>Appearance / Color</b>	White, Pearl Gray, Custom Color available with minimum order quantity
<b>Density</b>	10.8 lb./gal. (1294 kg/m <sup>3</sup> )

Solid content by volume	71 %	(ASTM D-2697)
Volatile organic compound (VOC) content	209 g/l	(ASTM D-2369-81)

## TECHNICAL INFORMATION

Resistance to Static Puncture	Ref. reinforced system data	(ASTM D-5602)
Tensile Strength	Ref. reinforced system data	(ASTM D-751)
Elongation at Break	Ref. reinforced system data	(ASTM D-751)
Chemical Resistance	Most common roofing contaminants, oils, grease, dilute acids and bases	

## APPLICATION INFORMATION

Coverage	<b>Sika Reemat</b>	<b>Sika Fleece</b>		
	53 sf/gal - 30 mils wet film thickness	15sf/gal - 105 mils wet film thickness		
	40 sf/gal - 40 mils wet film thickness	19 sf/gal - 85 mils wet film thickness		
	35 sf/gal - 45 mils wet film thickness	23 sf/gal - 70 mils wet film thickness		
NOTE: Coverage rates are optimal - coverage rates will vary depending on temperature, surface roughness and porosity, and application technique.				
Ambient Air Temperature	41 °F (5 °C) min. / 95 °F (35 °C) max.			
Relative Air Humidity	80 % R.H. max.			
Dew Point	Beware of condensation. The substrate and uncured coating must be ≥ 5 °F (3 °C) above dew point.			
Substrate Temperature	41 °F (5 °C) min. / 140°F (60°C) max.			
Substrate Moisture Content	≤ 4 % moisture content Test method: Sika®-Tramex meter No rising moisture according to ASTM (Polyethylene-sheet)			
Pot Life	Sikalastic®-624 WP is designed for fast curing. High temperatures combined with high air humidity will increase the curing process. Thus, material in opened containers should be applied immediately. In opened containers, the material will form a film after 1 hour approx. ( at 75 °F (24 °C) and 50 % R.H.)			
Cure Time	<b>Ambient conditions</b>	<b>Minimum waiting time overcoating</b>		
	+40 °F / 50 % r.h.	14 hours		
	+50 °F / 50 % r.h.	6 hours		
	+70 °F / 50 % r.h.	5 hours		
*After 7 days the surface must be cleaned and primed with Sika® Reactivation Primer before continuing. Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.				
Applied Product Ready for Use	<b>Ambient conditions</b>	<b>Rain resistant</b>	<b>Touch dry</b>	<b>Full cure</b>
	+40 °F / 50 % r.h.	10 min.	12 hours	24 hours
	+50 °F / 50 % r.h.	10 min.	6 hours	18–24 hours
	+70 °F / 50 % r.h.	10 min.	4 hours	12–18 hours
Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.				

## 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

- Minimum age of concrete must be 28 days depending on curing and drying conditions
- Do not thin with solvents
- Do not store materials outdoors exposed to sunlight and moisture for prolonged periods
- 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 may occur
- Use sunglasses with UV filter when applying highly reflective white resins
- Do not use for indoor applications
- Precautions should be taken to prevent vapors and/or odors from entering the building/ structure, including but not limited to turning off and sealing air intake vents and through wall air conditioners, and other means of vapor/odor ingress during application and cure
- 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 permanent staining and subsequent premature failure
- 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
- Opening to traffic prior to cure may result in loss of aggregate or permanent staining and subsequent premature failure
- On grade concrete decks should not be covered with Sikalastic® RoofPro membrane systems
- Unvented metal pan, split/sandwich slab with encapsulated membrane and/or insulation, cinder fill decks, and lightweight insulating concrete overlays should not be covered with Sikalastic® RoofPro membrane systems without additional deck evaluation and subsequent approval by Technical Services.
- Do not subject to continuous immersion

- 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

### SURFACE PREPARATION

All substrate surfaces shall be clean, dry and sound. Acceptable substrates include: sound concrete and cementitious screed, metals, wood, modified bitumen, mineralized felt, EPDM, hypalon, TPO, sprayed polyurethane foam, brick and stone, slate and tile, and existing liquid applied membranes. Reference separate System Data Sheet for specific surface preparation requirements.

### Primer

Apply primer of a type suitable for the substrate. Allow primer to cure completely before applying Sikalastic®-624 WP resin. Reference separate System Data Sheet for specific primer recommendations.

### MIXING

No mixing necessary

### APPLICATION

#### Sika Reemat - Base Resin

Apply Sikalastic®-624 WP resin to the primed substrate surface by means of 1/2" (12.7 mm) nap phenolic resin core roller or brush at the specified application rate to achieve a uniform and consistent wet mil thickness (reference separate System Data Sheet). Material can also be squeegee or spray applied, in which case it should also be backrolled. Apply Sika Reemat into the wet embedment resin and roll the scrim to achieve full saturation and embedment. Reemat shall be torn/cut to conform to substrate transitions and flashing conditions, with a typical 2" (50.8 mm) reinforcement overlap. Resin shall saturate the Reemat from below. Apply additional Sikalastic®-624 WP resin as required to ensure full scrim embedment. Allow to cure completely before applying subsequent resin layers.

#### Sika Reemat - Intermediate and Top Resin

Apply Sikalastic®-624 WP resin to the cured Sikalastic® Reemat base layer by means of 1/2" (12.7 mm) nap phenolic resin core roller or brush at the specified application rate to achieve a uniform and consistent wet mil thickness (reference separate System Data Sheet).

Material can also be squeegee or spray applied, in which case it should also be backrolled. Allow to cure completely before applying subsequent resin layer, if specified.

### Sika Fleece

Apply Sikalastic®-624 WP resin to the primed substrate surface by means of 1/2" (12.7 mm) nap phenolic resin core roller or brush to achieve a uniform and consistent thickness, applying approximately 2/3 of the resin required to achieve the specified application rate (reference separate System Data Sheet). Apply Sika Fleece into the wet embedment resin and roll the fleece to achieve partial saturation and full embedment. Fleece shall be cut to conform to substrate transitions and flashing conditions, with typical 3" (76.2 mm) side and 6" (152.4 mm) end reinforcement overlaps. Resin shall saturate the Fleece from below. Apply remaining 1/3 of the specified resin quantity to ensure full fleece saturation and an even resin application.

### CLEANING OF TOOLS

Clean all tools and application equipment with appropriate solvent immediately after use. Hardened and/or cured 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](http://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

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#### Product Data Sheet

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Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs.

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