



Sikalastic®-641

Single component low odor saturating resin for Sikalastic RoofPro roofing systems

Description	Sikalastic®-641 is a cold applied, highly elastic, aliphatic, single component, low-odor moisture-triggered polyurethane resin designed for easy application as part of Sikalastic® RoofPro roofing systems.	
Where to Use	<ul style="list-style-type: none"> ■ Embedment and top resin for Sikalastic® RoofPro systems reinforced with Sika Reemat. ■ Saturating resin for Sikalastic® RoofPro systems reinforced with Sika Fleece. ■ Typically applied in Sikalastic® RoofPro Direct, Recover, Built-Up, Inverted, and Vegetated systems for both new construction and refurbishment. 	
Advantages	<ul style="list-style-type: none"> ■ Single component - no mixing and ready to use ■ Fully reinforced with highly conformable Sika Reemat or Sika Fleece ■ Resists sag and runs on vertical applications ■ Advanced low-odor formulation ■ Moisture-triggered chemistry that is rapidly weatherproof after application ■ Highly elastic and crack bridging ■ Seamless and fully adhered ■ Vapor permeable ■ UV resistant and non-yellowing ■ Abrasion and chemical resistant 	
Coverage	Sika Reemat 80 ft ² /gal - 20 mils wet film thickness 69 ft ² /gal - 23 mils wet film thickness 53 ft ² /gal - 30 mils wet film thickness 32 ft ² /gal - 50 mils wet film thickness	Sika Fleece 16 ft ² /gal - 95 mils wet film thickness 20 ft ² /gal - 80 mils wet film thickness 25 ft ² /gal - 70 mils wet film thickness
	Note: Coverage rates provided are optimal and are not guaranteed. Coverage rates will vary depending on temperature, surface roughness and porosity, aggregate selection and embedment, and application technique.	
Packaging	5 gal. pails	
Cure Mechanism	Moisture triggered	
Chemical Resistance	Most common roofing contaminants, oils, grease, dilute acids and bases	

Typical Data (Material and curing conditions @ 73°F and 50% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	12 months in original, unopened and undamaged sealed containers
Storage Conditions	Store dry at 35-77°F (2-25°C).
Product Conditioning	Condition material to 50-77°F (10-25°C) before using for ease of application.
Color	Standard Colors: White, Pearl Gray, Steel Gray, Mushroom, Copper Green; custom colors available with minimum order.
Density	11.9 lbs/gal.
Total Volume Solids (ASTM D-2697)	89%
VOCs (ASTM D-2369-81)	100 g/l
Flash Point	199°F (93°C)
Service Temperature	-22 to 176°F (-30 to 80°C) intermittent
Solar Reflectance (Initial - ASTM C-1549)	0.88 (White - RAL 9016)
SRI (Initial - ASTM E-1980)	110
Breaking Strength (ASTM D-751)	Ref. reinforced system data
Elongation at Break (ASTM D-751)	Ref. reinforced system data
Tear Resistance (ASTM D-751)	Ref. reinforced system data
Static Puncture Resistance (ASTM D-5602)	Ref. reinforced system data
Vapor Permeability (ASTM E-96 Proc. A)	Ref. reinforced system data



PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT [HTTP://USA.SIKA.COM/](http://usa.sika.com/) OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA 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 DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

How to Use

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®-641 resin. Reference separate System Data Sheet for specific primer recommendations.

Mixing

No mixing necessary.

Application

Sika® Reemat - Base Resin

Apply Sikalastic®-641 resin to the primed substrate surface by means of 1/2" 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 cut to conform to substrate transitions and flashing conditions, with a typical 2" reinforcement overlap. Resin shall saturate the Reemat from below. Apply additional Sikalastic®-641 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®-641 resin to the cured Sikalastic® Reemat base layer by means of 1/2" 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 any subsequent resin layer, if specified.

Sika® Fleece

Apply Sikalastic®-641 resin to the primed substrate surface by means of 1/2" 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" side and 6" 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.

Removal

Remove liquid resin immediately with dry cloth. Once cured, resin can only be removed by mechanical means.

Limitations

- To avoid dew point conditions during application, relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperatures.
- Minimum ambient and substrate temperature during application and curing of material is 36°F (2°C); maximum is 95°F (35°C). Surface temperatures must be no higher than 140°F (60°C). Frequent monitoring of ambient and substrate temperature should always be done when applying polyurethane resins. Note that low temperatures and low humidity will slow down the cure, and high temperatures and high humidity will accelerate it.
- Do not apply on substrates with moisture content greater than 4% by weight, measured by Tramex® Concrete Moisture Encounter Meter.
- Minimum age of concrete must be 21-28 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.
- Not recommended for direct exposure to heavy or frequent foot traffic.
- Do not apply cementitious products, such as tile mortar directly onto Sikalastic®-641. See Sikalastic®-624 WP Product Data Sheet.



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Construction

- 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.

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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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Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at <http://usa.sika.com/> or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

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