



ROOFING & WATERPROOFING SEAMLESS SOLUTIONS WITH **Sikalastic® RoofPro** SYSTEMS

BUILDING TRUST



ADVANCED TECHNOLOGY SEAMLESS ROOFING AND WATERPROOFING

Sikalastic® RoofPro Systems

SIKA – A HISTORY OF INNOVATION

The history of Sika began in 1910 when the Gotthard rail tunnel running through the Swiss Alps was to be electrified and needed a secure waterproofing system. A completely new solution for chemically waterproofing cement mortars and concrete was developed to address this need, and so the company and brand of Sika was founded. Today Sika is the global technology and market leader in specialty chemicals for construction and industry, providing complete systems and problem solutions worldwide.

Sika continues to pioneer innovative solutions to today's construction requirements through its twelve Research & Development facilities located worldwide. Product development is typically initiated in Sika's corporate R & D laboratories, and then further developed locally to meet climatic, regulatory, and industry demands. Sika is truly a global company with a local focus.

The Sikalastic RoofPro family of polyurethane-based roofing and waterproofing membrane systems has a 25 year track record of successful applications worldwide. These systems combine a uniquely-formulated liquid resin with a high-strength fiberglass or polyester-based fabric reinforcement to form a tough, resilient membrane that conforms and bonds tightly to the substrate surface.

Sikalastic RoofPro moisture-triggered liquid resins, primers, and reinforcements represent the innovative, intelligent product design that is fundamental to Sika.

Sikalastic RoofPro SYSTEMS WITH MTC

Sikalastic RoofPro systems with MTC (Moisture-Triggered Chemistry) incorporate a unique technology that allows the material to use atmospheric moisture to trigger the curing process. This means the waterproofing membranes are capable of curing in a wide range of conditions including extreme temperature ranges and humidity variations.

Moisture-triggered chemistry provides Sikalastic RoofPro systems with increased tolerance to substrate and incidental moisture at time of application.

Sikalastic RoofPro systems are waterproof shortly after application, providing protection against sudden rainstorms and adverse weather conditions.

Due to its unique moisture-triggered chemistry, Sikalastic RoofPro systems offer installation advantages that other liquid-applied systems cannot match:

- Unlike typical polyurethane systems, Sikalastic RoofPro systems do not release CO₂ during the curing process, which can cause outgassing and bubbling.
- Unlike typical polymethyl methacrylate and other multi-component systems, Sikalastic RoofPro systems are more applicator-friendly in temperature extremes, particularly hot weather.

- Unlike typical hot-applied rubberized systems, Sikalastic RoofPro systems do not require a separate UV-resistant protection layer, and do not utilize separate sheet rubber flashing materials.



SINGLE COMPONENT TECHNOLOGY

Sikalastic RoofPro membranes are single-component resins, which eliminates the labor costs, inconvenience and potential error involved in mixing multiple components. Single-component technology eliminates incomplete curing and variations in membrane performance that can occur if proper mixing ratios of multiple components are not maintained.

In addition, working time is greatly extended, minimizing material waste due to cured, but not applied, material.

REFLECTIVE, FIRE-RATED, WIND-RATED, AND ALKALINE-RESISTANT

Sikalastic RoofPro systems are available with Energy Star reflectivity, ASTM E-108 Class A fire resistance, wind uplift ratings to 1-990, and alkalinity resistance incorporated into the waterproofing membrane. An additional surfacing is not required to achieve these performance requirements.

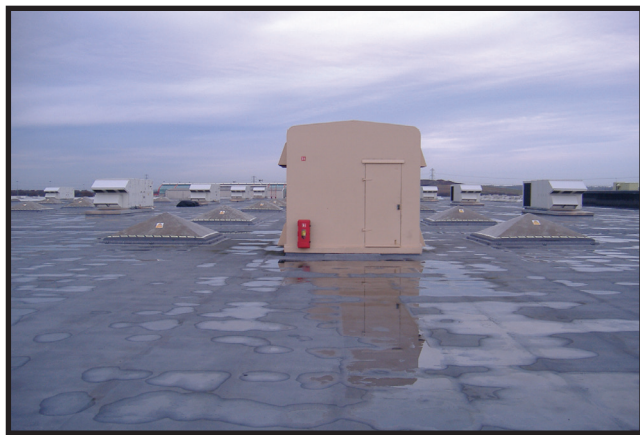
KEY SYSTEM BENEFITS

Sikalastic RoofPro systems utilize liquid-applied technology to eliminate traditional roofing and waterproofing weaknesses and enhance system performance:

- Seamless application eliminates lap seams - a primary cause of system failure.
- Integrated self-adhering, self-terminating flashings eliminates termination bars and caulking - another primary cause of system failure.
- Liquid applied membrane and flashings conform to virtually any shape and profile, effectively eliminating pitch pans, metal sleeves, etc.
- 100% membrane and flashing reinforcement provides enhanced strength and durability throughout.
- Direct bonding to the substrate prevents lateral water migration.
- Exceptional adhesion to most common substrate materials including: concrete, brick, terra-cotta, limestone, wood, glass, copper, steel, aluminum, existing bituminous roofing, and even many single-ply membranes.
- Same-day primer and membrane installation is possible for many applications.

RANGE OF APPLICATIONS

Sikalastic RoofPro systems are excellent solutions for a wide range of roofing and waterproofing applications:



■Roofing

- **Built-Up Insulated Roofing** – Reflective, energy-efficient application over cover board and polyisocyanurate foam insulation.
- **Direct-to-Substrate Roofing** – Heavy-duty application to structural concrete and wood decks.
- **Protected Membrane Roofing** – Seamless, self-flashing installation under extruded polystyrene insulation with stone or concrete paver ballast.
- **Recover Roofing** – Direct application to existing asphaltic, modified bitumen, and single-ply membranes, potentially eliminating the need for costly replacement of existing roofing, as well as adding minimal additional weight – less than 1 psf.



■Waterproofing

- **Plaza Deck Waterproofing** – Seamless, self-flashing waterproofing under tile, concrete pavers, brick or asphalt, paving stones, concrete, and asphalt pavement
- **Balcony and Terrace Waterproofing** – Alkaline-resistant waterproofing under tile, pavers, and wood decking. Alternatively, waterproofing membrane applied with integral decorative aggregate or terrazzo-flaked surfacing.
- **Vegetated Roofing** – Root and rot-resistant waterproofing under growing media and plantings, and associated hardscape.



■Restoration

- **Decorative Elements** – Preserve and protect water tables, ledges, eyebrows, cornices, built-in gutters, dormers, domes, etc.
- **Metal Roofing** – Retain profile of standing seam, batten, and flat seam roofing; seal overlap joints, penetrations, valleys, and other problematic areas.



■Repair

- **Existing Flashings** – Replace deteriorated wall flashings, base flashings, penetration flashings, pitch pans, expansion joints, etc.
- **Unique Conditions** – Through-wall flashings, lintel protection, stairs and walkways, planters and tree pits.

REINFORCEMENT OPTIONS

Sikalastic RoofPro systems are available with two different reinforcement options, allowing exceptional versatility in application, even on the same project:

- **Reemat Fiberglass Mat** – High tensile-strength reinforcement, eliminates visible reinforcement overlaps, conforms to many flashing conditions without special cutting and fitting.
- **Non-Woven Polyester Fleece** – Defined-thickness reinforcement, allows single-pass wet-on-wet application, ideal for many flashing conditions with sharp bends and angles.

RESIN OPTIONS

Sikalastic RoofPro systems are available with a number of liquid resin options to provide cost-effective, high performance solutions to various roofing and waterproofing applications:

- **Sikalastic-601 BC** - Economical base coat resin for use with Reemat reinforcement
- **Sikalastic-621 TC** - Enhanced base and top coat resin for use with Reemat and fleece reinforcements
- **Sikalastic-641** - Low odor version of Sikalastic 621 TC, utilizing patented i-cure technology (early 2014 introduction)
- **Sikalastic-624 AR** - Alkaline-resistant resin for use with Reemat and fleece reinforcements under tile and concrete
- **Sikalastic-644** - Low odor version of Sikalastic 624 AR, utilizing patented i-cure technology (late 2014 introduction)



ROOFING AND WATERPROOFING WARRANTIES

Depending on system configuration, Sikalastic RoofPro systems are available for 10, 15, 20, and 25 year durations. Warranted systems require project registration approval by the Sika technical department, and field inspection of the installation by Sika technical field representatives.

SINGLE SOURCE WARRANTIES

As an extension of the Sika warranty program, Sikalastic RoofPro systems are available to provide building owners with single source warranty coverage, ensuring component compatibility throughout the roofing/waterproofing assembly and simplifying warranty responsibility.

■ RoofPro Built-Up System Assembly:

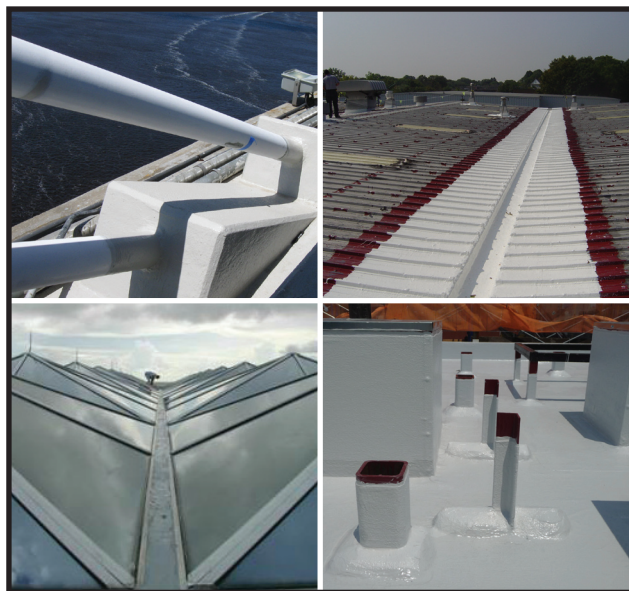
Includes vapor barrier, insulation, cover board, insulation adhesive, insulation screws & plates, edge metal

■ RoofPro Plaza Deck/Protected Membrane System Assembly:

Includes drainage mat, extruded polystyrene insulation, concrete pavers & pedestals, edge metal

■ RoofPro Vegetative/Hardscape System Assembly:

Includes drainage mat, extruded polystyrene insulation, water retention mat, filter fabric, growing media & sedum, concrete pavers & pedestals, edge metal



FULL TECHNICAL SUPPORT

Sikalastic RoofPro systems are supported nationwide by Sika Refurbishment, Sealing and Bonding professional representatives, who are experienced in developing cost-effective solutions for a wide range of application conditions.

CSI-format editable guide specifications and CAD-based assembly and flashing details are available.

Technical field services are provided by a dedicated team of hands-on experts in liquid-applied technology.



Sikalastic RoofPro System	BU - Built-Up Insulated System		DS - Direct to Substrate System		PD - Plaza Deck/Protected Membrane System		VG - Vegetated/Hardscape System	
Reinforcement type	Reemat	Fleece	Reemat	Fleece	Reemat	Fleece	Reemat	Fleece
Same-day primer/membrane		X		X		X		X
No visible overlaps	X		X		X		X	
New construction roof	X ¹	X ¹	X	X	X	X	X	X
Recover existing roof	X	X	X	X	X ²	X ²	X ²	X ²
Replace existing roof	X ³	X ³	X	X	X	X	X	X
Class A fire rating	X	X	X	X	X ⁴	X ⁴	X ⁴	X ⁴
Wind uplift/resistance rating	X ⁵	X ⁵	X ⁵	X ⁵	X ⁶	X ⁶	X ⁶	X ⁶
Hail resistance rating	X	X	X	X	X	X	X	X
Maintenance foot traffic	X	X	X	X	X	X	X	X
Extensive foot traffic					X	X	X ⁷	X ⁷
High reflective/SRI	X	X	X	X	X ⁸	X ⁸		
Removable overburden					X	X	X	X
Adhered overburden					X ⁹	X ⁹	X ⁹	X ⁹

Notes:

1. Use Sarnavap SA vapor barrier under insulation if required by design.
2. Ensure existing roof system is stable and can carry the weight of the new Sikalastic roofing materials without compression/damage.
3. Use Sikalastic Carrier SA as waterproofing layer over insulation/cover board as removal progresses. Install new Sikalastic membrane once removal is complete.
4. Sikalastic membrane system provides Class A fire rating. Verify fire rating of overburden materials.
5. Reference Factory Mutual RoofNav assemblies for specific wind uplift ratings. Use Sikalastic edge/coping metal for best performance.
6. Uplift resistance is a function of overburden materials. Higher parapets are beneficial. Use Sikalastic edge/coping metal for best performance.
7. Confine foot traffic to hardscape areas unless vegetation is intended for recreational use, i.e., turf.
8. Reflective white-colored pavers or stone aggregate required.
9. Aggregate surfacing provides enhanced adhesion of overburden to membrane. Cementitious overburden requires use of alkaline-resistant Sikalastic membrane.

APPLICATION OVERVIEW

Step 1 – SUBSTRATE PREPARATION



Step 4 – DETAILING/FLASHING



Step 2 – INSULATION/COVER BOARD (As specified)



Step 5 – MEMBRANE APPLICATION



Step 3 – PRIMER APPLICATION

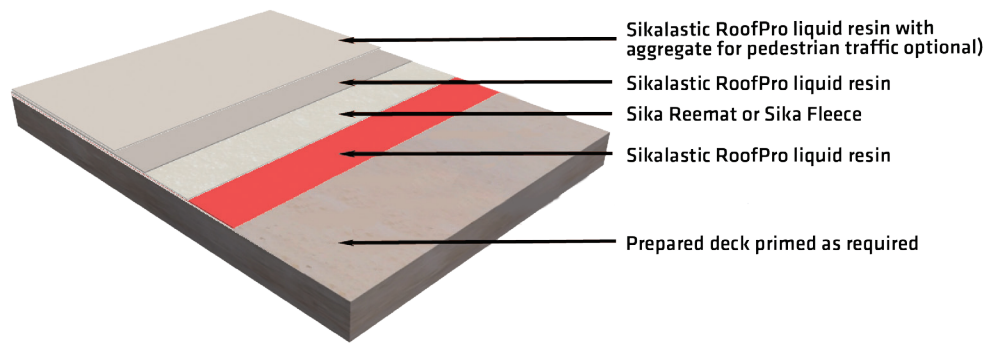


Step 6 – SURFACING/OVERBURDEN (As specified)



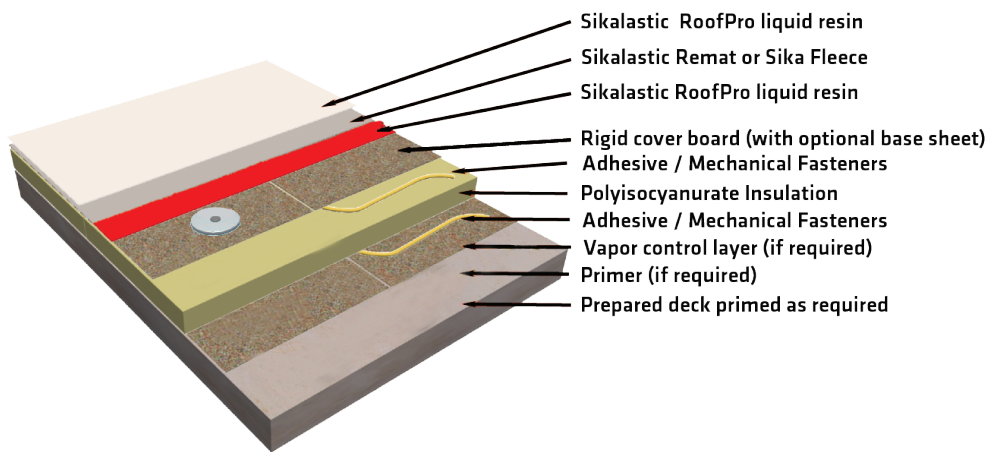
SIKALASTIC ROOFPRO DIRECT-TO-SUBSTRATE ASSEMBLY

Suitable for direct application to structural concrete decks, plywood decks, and many existing smooth and granule-surfaced roofing systems. Reference Product/System Data Sheet for membrane/system requirements.



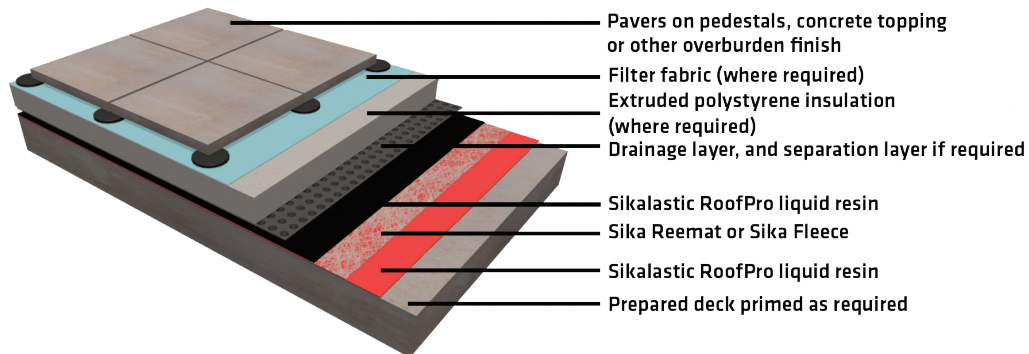
SIKALASTIC ROOFPRO BUILT-UP INSULATED ASSEMBLY

Suitable for applications requiring the installation of insulation, including new construction, roof replacement, and upgrading of existing roofing systems. Full System Warranty available. Reference Product/System Data Sheet for membrane/system requirements.



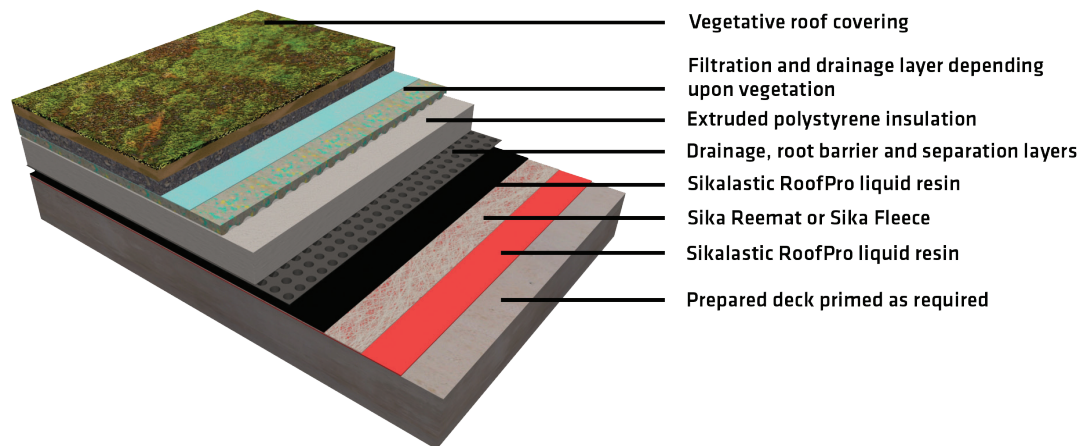
SIKALASTIC ROOFPRO PLAZA DECK AND PROTECTED MEMBRANE ASSEMBLY

Suitable for applications where pavers, wood decking, or tile will be installed over the roofing/waterproofing membrane. An insulation layer may or may not be included. Full System Warranty available. Reference Product/System Data Sheet for membrane/system requirements.



SIKALASTIC ROOFPRO VEGETATED AND HARDSCAPE ASSEMBLY

Suitable for both intensive and extensive vegetated roofing applications where growing media and plantings will be installed over the roofing/waterproofing membrane. Typical applications include hardscape such as concrete pavers or stone ballast. An insulation layer may or may not be included. Full System Warranty available. Reference Product/System Data Sheet for membrane/system requirements.



SELECTED SIKA PRODUCTS FOR USE WITH Sikalastic® RoofPro Systems:

FAST SET REPAIR MORTARS

- SikaQuick® 1000
- SikaQuick® 2500
- SikaQuick® VOH

FAST CURE ADHESIVES

- Sika® AnchorFix-2
- Sika® AnchorFix-2 Artic

FAST CURE SEALANTS

- Sikaflex® 11FC
- Sikaflex® 2cNS
- Sikaflex® 2cSL



All sales of Sika products are subject to Sika's current Terms and Conditions of Sale available at www.sikausa.com or by calling 201-933-8800. 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 Material Safety Data Sheet, which are available at www.sikausa.com or by calling Technical Services at 1-800-933-7452. 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 Material Safety Data Sheet prior to product use.

The sale of all Sika products are subject to the following Limited Warranty:

LIMITED MATERIAL WARRANTY

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 shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

Our most current General Sales Conditions shall apply. Please consult the Product Data Sheets prior to any use and processing.



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