
Sustainable
Building
Components®
SUSTAINABLE BUILDING COMPONENTS
SBC
CHICAGO


Sustainable
Building
Components®
COMPANY
OVERVIEW

Sustainable Building Components®

THE COMPANY WE KEEP

SIKA ROOFING

Sika Roofing is the worldwide leader in manufacturing resilient and sustainable roofing solutions for non-residential construction projects. With 60+ years of experience and our reputation for making roofs that can last 30+ years in every imaginable climate, you are not only choosing a roof that can withstand extreme elements but one that will be able to provide superior protection for decades.

SIKA ROOFPRO

Sikalastic® RoofPro

Sikalastic® RoofCoat

Sika offers two liquid-applied roofing/waterproofing membrane systems, Sikalastic RoofPro, and Sikalastic RoofCoat, to meet your project's specific needs. Liquid-Applied Membranes (LAM) are cold-applied, single-component polyurethanes, silicones, or acrylics that are monolithic, fully adhered, and can be locally or fully reinforced.

SIKA RMAX

Since 1978, Rmax has been creating insulation solutions based on the latest building science. Our full line of high-quality, polyiso-based wall, roof and specialty insulation products for commercial, industrial and residential applications deliver maximum R-values and minimum environmental impact, with efficiency in installation, cost and design.

Sustainable Building Components®

THE COMPANY WE KEEP

SIKA ROOFING

SikaShield® offers a diverse array of options tailored to fit various systems and designs. Our membranes are crafted from a carefully selected combination of polymers, enhancing properties like cold flexibility, heat resistance, viscosity, and softness. Choosing the right bituminous compound is crucial for maintaining effective waterproofing across a range of temperatures and weather conditions, including wind, snow, and hail. With SikaShield®, you can ensure reliable protection for your roofing and building envelope systems.

steinel

STEINEL

STEINEL is a global organization dedicated to the development of cutting-edge technology for delivery of controlled heat. Professionals have come to expect the superior performance, reliability and value only an industry leader can provide. The highest standards in design, manufacturing and service have made the STEINEL name synonymous with quality and innovation.

bioroof GREENROOFS

BIOROOF GREEN ROOF

Bioroof Systems Inc., is a leading North American manufacturer of green roof systems, providing high-quality, high-performance solutions designed to exceed traditional green roof standards. Bioroof stands as a robust, homegrown solution for the green roof industry, offering sustainable benefits for both the built environment and the natural world.

Sustainable Building Components®

WHAT ARE LIQUID-APPLIED ROOFING & WATERPROOFING MEMBRANES?

Sika® ROOFING

Liquid-applied membrane (LAM) is a monolithic, fully-bonded, liquid-based coating suitable for many waterproofing and roofing applications. The coating cures to form a flexible, durable elastomeric waterproof membrane and may be applied over many substrates, including asphalt, bitumen, and concrete.

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Sika® ROOFING

SIKA LAM CAN BE APPLIED ON A VARIETY OF SUBSTRATES

Bitumen

Metal

Concrete

Bricks and stones

Roof tiles

Copper

Wood

Fiber cement

Sustainable Building Components®

Sika® ROOFING

SIKA LAM CAN BE APPLIED IN HIGHLY COMPLEX AND DETAILED AREAS

Benefits	Features
Fast, easy and safe application Limited human error	Liquid-Applied No mixing on the resin
Extend life cycle of old or leaking roofs without interruption Suitable for various types of structures and substrates Many possible applications, for roofs, roads, bridges, basements, terraces and more	Versatile
Lower risk of roof failure even in cold climate and longer life expectancy	Highly elastic Seamless Fully adhered to substrate High UV resistance Retains flexibility even at low temperatures
Safety Reduced fire risk	Zero flame technology
Entrapped moisture can evaporate, no blistering	Vapor permeable
Design freedom with more possible applications	Variety of color options
Improved energy efficiency for cool roofs and solar roofs	High solar reflectance index when applied in white color

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WHAT ARE THE BENEFITS OF A SIKALASTIC LIQUID APPLIED SYSTEM?

Sika® ROOFING

- Seamless Membrane
- Fully Adhered
- Cost-Effective
- Complex Details Made Easy
- Attractive Warranty Options
- Low VOC
- No Building Disruption
- Substrate Compatibility
- Design Freedom
- Fast & Easy Application
- Quick Curing Times
- Roof Life Extension
- Labor Savings
- Moisture-Triggered Chemistry

Sustainable Building Components®

WHAT ARE THE BENEFITS OF A SIKALASTIC LIQUID APPLIED SYSTEM?

Sika® ROOFING

Seamless Membrane: Liquid applied membranes are monolithic e.g., no seams, joints, or overlaps, eliminating water infiltration at these common roof system areas.

Fully Adhered: Direct bonding to the substrate prevents lateral water migration in the event of a puncture or storm damage.

Cost-Effective: Liquid-applied membranes are an ideal solution for refurbishment or recover projects since they eliminate the need to tear off the existing leaking/failing roofing and waterproofing systems. This saves on costs associated with a tear-off such as labor and disposal.

Sustainable Building Components®

WHAT ARE THE BENEFITS OF A SIKALASTIC LIQUID APPLIED SYSTEM?

Sika® ROOFING

Complex Details Made Easy: Liquid-applied systems provide easy application for complex geometries or surfaces with limited access. The liquid membrane and flashings conform to virtually any shape and profile, effectively eliminating pitch pans/pockets, metal sleeves, etc.

Attractive Warranty Options: Whether you need to briefly extend the life of your existing roofing/waterproofing or desire a long-term warranty for up to 25 years, Sikalastic Systems have warranties to meet your project's specific requirements.

Sustainable Building Components®

WHAT ARE THE BENEFITS OF A SIKALASTIC LIQUID APPLIED SYSTEM?

Sika® ROOFING

Low VOC: Sikalastic has many Low VOC, eco-friendly, products. Whether you have an occupied building or just want to use products that are better for the environment, Sikalastic products have your needs covered.

No Building Disruption: Liquid-applied roof systems use little to no equipment to install. No gas-powered generators, electric mixers, torches, etc. This means, in most cases, the occupants of the building won't even know work is being done.

Sustainable Building Components®

WHAT ARE THE BENEFITS OF A SIKALASTIC LIQUID APPLIED SYSTEM?

Sika® ROOFING

Design Freedom:

- Custom Colors
- Shape Conformability
- Green Roofs
- Amenity Decks
- Plaza Decks
- Tile & Paver Overburden
- Decorative Options
  - Broadcast Sand
  - Quartz Aggregate Blends
  - Vinyl Color Chips

Sustainable Building Components®

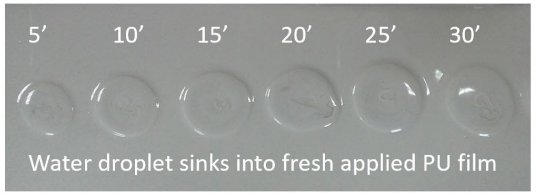
WHAT ARE THE BENEFITS OF A SIKALASTIC LIQUID APPLIED SYSTEM?

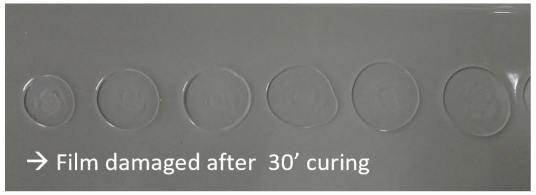
Sika® ROOFING

Fast & Easy Application

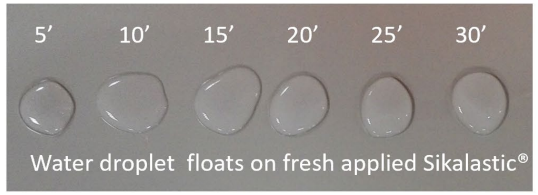
- No old roof tear-off
- Roller, brush, or spray applied
- Single component resins require no mixing
- 7-day overcoat window

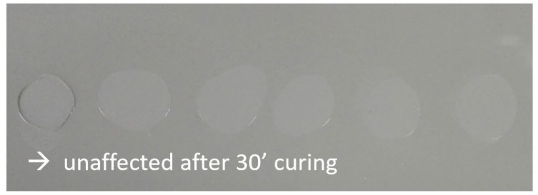
Quick Curing Times: Sikalastic RoofPro systems are waterproof within 10 to 60 minutes after application (temperature and humidity dependent). This early rain resistance keeps your building watertight even in the event of a pop-up shower or storm.





Moisture Cured





Moisture Triggered

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WHAT ARE THE BENEFITS OF A SIKALASTIC LIQUID APPLIED SYSTEM?

Sika® ROOFING

Roof Life Extension: Liquid-applied membranes not only can be used to repair a damaged roof but also can be used to increase the life span of an old/leaking roof. With a high-performance liquid system, roofs are once again protected from the elements for decades.

Labor Savings:

- Single component resins require no mixing
- Recover instead of tear-off
- Long pot life means little to no waste
- 7-day overcoat window
- Fast and easy installation

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WHAT ARE THE BENEFITS OF A SIKALASTIC LIQUID APPLIED SYSTEM?

Sika® ROOFING

Moisture-Triggered Chemistry: 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:

- **Reliable Application:** Systems are capable of curing in a wide range of conditions including extreme temperature ranges and humidity variation.
- **Promising Results:** Unlike typical polyurethane systems, membranes do not release CO2 during the curing process, which can cause outgassing and bubbling.

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WHAT ARE THE BENEFITS OF A SIKALASTIC LIQUID APPLIED SYSTEM?

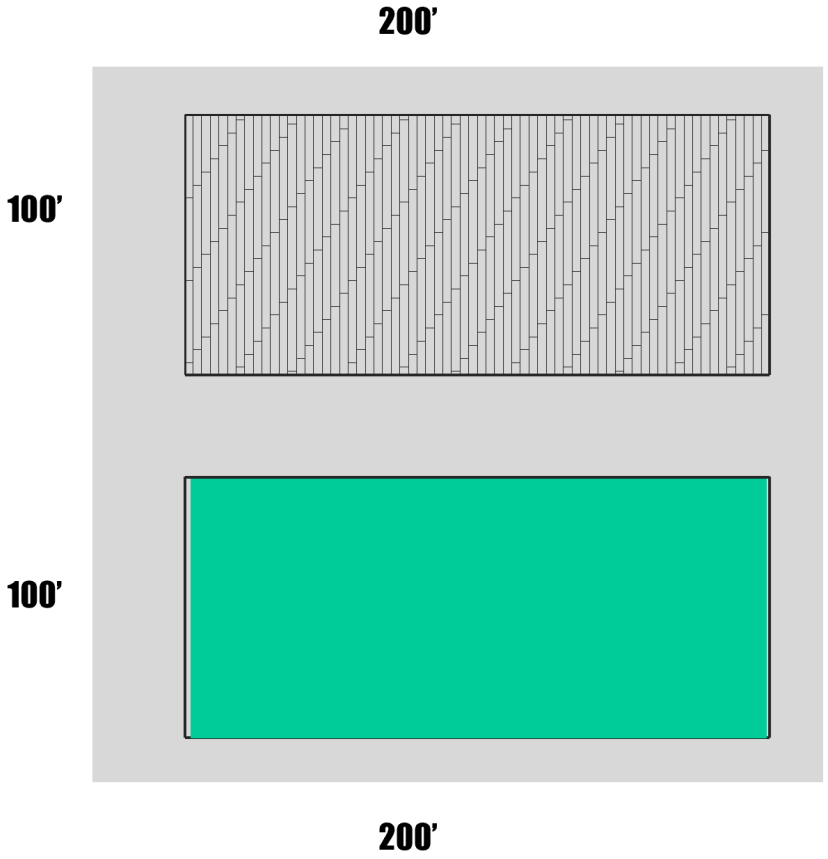
Sika® ROOFING

SHEET OR LIQUID APPLIED MEMBRANE - SEAMS

Typical 20,000 Square foot roof

Modified-Bitumen
39-3/8” x 33’ Sheets
Appx. 7369 LF of Seams

Liquid Applied System
0 LF of Seams

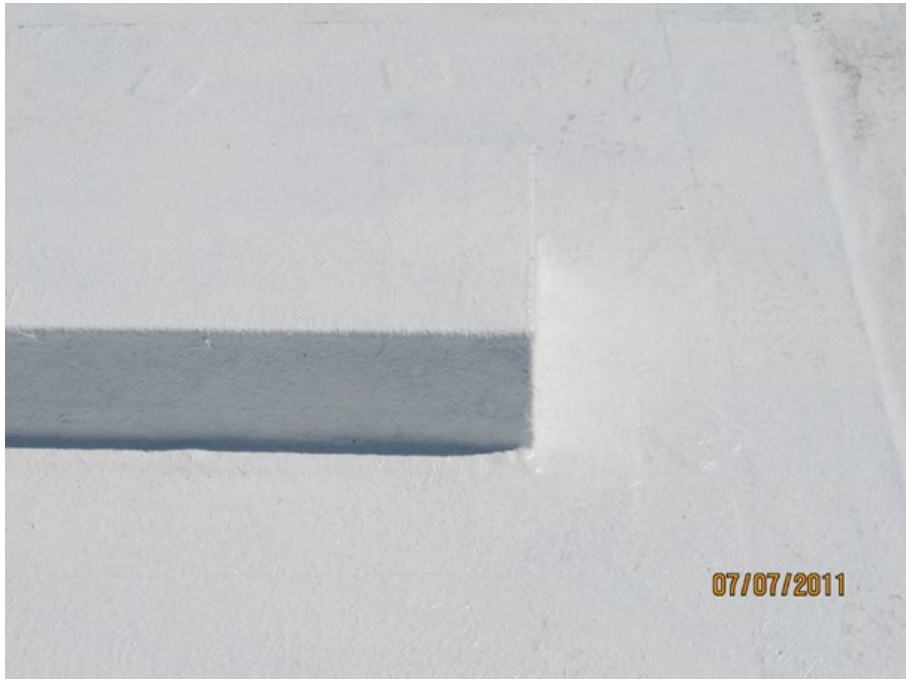


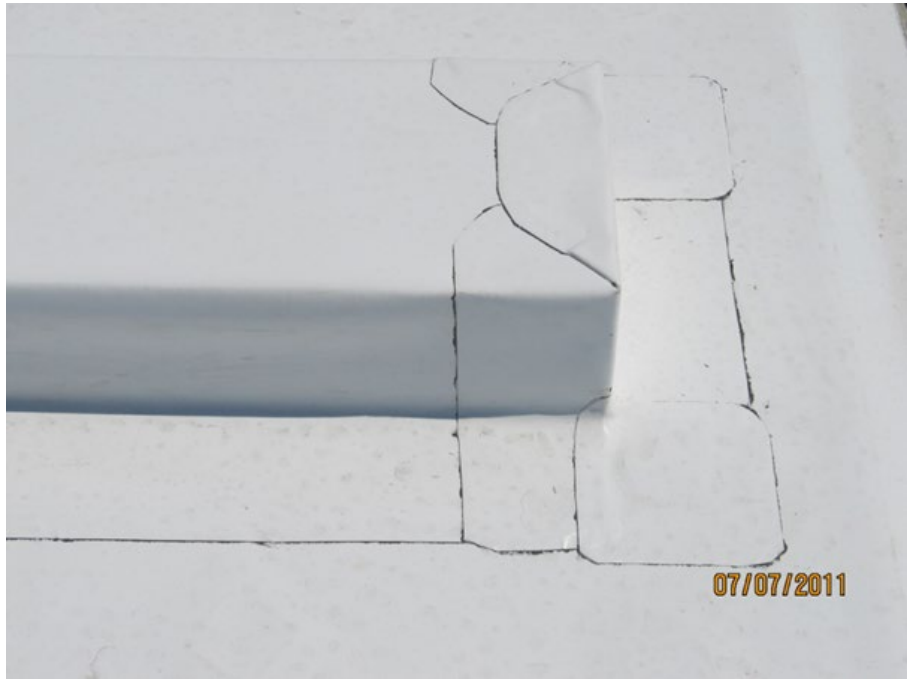
Sustainable Building Components®

WHAT ARE THE BENEFITS OF A SIKALASTIC LIQUID APPLIED SYSTEM?

Sika® ROOFING

SHEET OR LIQUID APPLIED MEMBRANE – SEAMS





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WHAT ARE THE BENEFITS OF A SIKALASTIC LIQUID APPLIED SYSTEM?

Sika® ROOFING

LIQUID APPLIED MEMBRANE – REINFORCEMENT

- **Fiberglass:**
  - Non-Woven
  - Highly Conformable
  - Seamless finish
  - No precutting required
  - 2-day process

- **Polyester:**
  - Dimensional
  - Less conformable
  - 98% recycled plastic bottles
  - Overlaps more visible
  - Precutting required
  - 1-day process, wet on wet

RECYCLED MATERIALS

SIKA FLEECE POLYESTER

- Sika Fleece polyester reinforcing fabrics are made from recycled plastic bottles so you can feel good knowing the roof above your head is reinforced with environmentally friendly products. Sika Fleece reinforcement also strengthens roofs for longer-lasting performance with less maintenance. Roofing and waterproofing contractors choose Sika Fleece for wet-on-wet application of the base coat and topcoat in one shot – not only saving contractors time but also reducing costs and application materials used on each job site.

Sustainable Building Components®

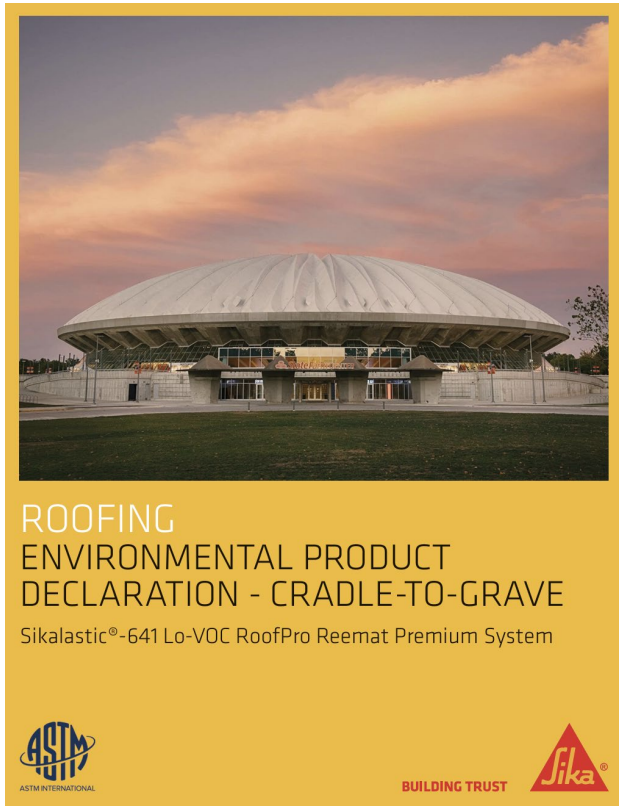
ENVIRONMENTAL PRODUCT DECLARATION - CRADLE-TO-GRAVE

Sika® ROOFING

ENVIRONMENTAL PRODUCT DECLARATIONS (EPD'S)

- **The Sikalastic RoofPro products are the only liquid applied roofing and waterproofing systems to offer a fully disclosed "Cradle to Grave" EPD. Sika is committed to constantly improving product lines to lower environmental impact and create safer products.**

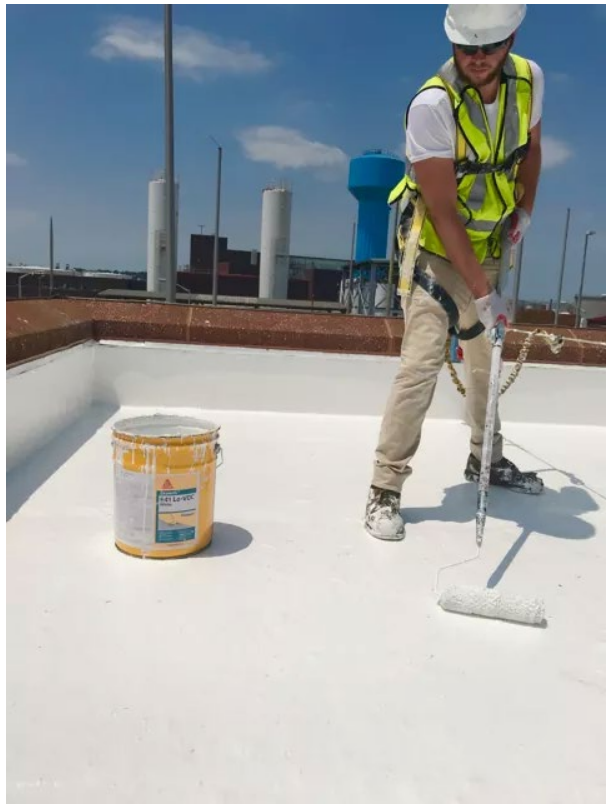
- Sikalastic-641 Fleece - EPD
- Sikalastic-641 Reemat – EPD
- Sikalastic-644 Fleece - EPD
- Sikalastic-644 Reemat - EPD



END OF LIFE

SERVICE LIFE CONCLUSION

- When the Sikalastic RoofPro system reaches the end of its service life, it may be primed and have additional material applied. Upon the demolition of the building, the Sikalastic membrane system, which is adhered to the substrate, is typically disposed of in a landfill. The demolition process primarily focuses on the building's structure, with the membrane system being a small component. As such, no further steps are required beyond transporting the material to the landfill and the landfill disposal process.



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WHAT ARE THE BENEFITS OF A SIKALASTIC LIQUID APPLIED SYSTEM?

Sika® ROOFING

LIQUID APPLIED MEMBRANE – REINFORCEMENT OPTIONS- HYBRID REINFORCEMENT (Combine Polyester & Fiberglass)

Sustainable Building Components®

ONE-COMPONENT POLYURETHANE BASED LIQUID APPLIED MEMBRANES

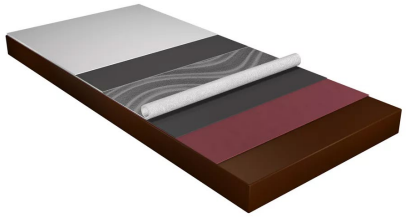
Sika® ROOFING

One-component polyurethane based liquid applied membranes and roof coatings were invented in the 1960s and represent an indispensable technology in today's roofing industry.

Due to their high mechanical properties and flexibility, particularly at lower temperatures, as well their capability to cure under a wide range of conditions, polyurethane based liquid applied membranes can also be used in climatically challenging environments.

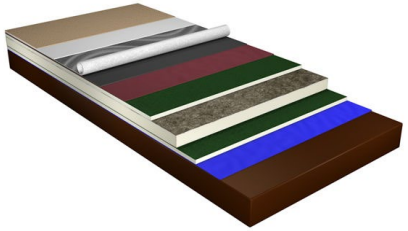
Benefits	Advantages	Features
More flexibility of application in unstable weather situation Time saving	Rain resistant almost immediately after application Fast overcoating	Fast Curing
Constant energy efficiency performance	Keeps high solar reflectance index (SRI)	UV stable and resistant to yellowing
Time saving in application No risk of mixing errors	Easy and ready to use	One-Component
Flexibility in application Cost saving for site handling	Handy transportation Easy handling	Convenient packaging in tins

CHOOSING THE RIGHT LIQUID APPLIED ROOFING/WATERPROOFING



DIRECT TO SUBSTRATE

Direct application to structural concrete decks, plywood decks, metal substrates, and existing roof systems.

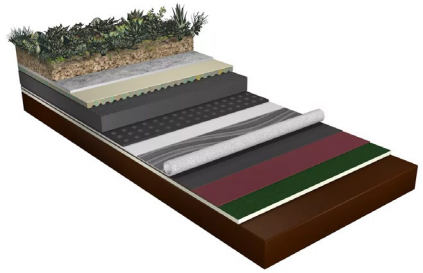


BUILT-UP INSULATED SYSTEM

Roofing systems requiring insulation such as new construction, roof replacement, and upgrading an existing roof system.

PLAZA DECK, TERRACE, BALCONY, & PATIO

Roofing & waterproofing application where pavers, wood decking, split slabs, tile and mortars or textured surfaces will be installed over the membrane. An insulation layer may or may not be needed.



GREEN (VEGETATIVE SYSTEM)

Roofing & waterproofing application where intensive or extensive vegetative overburden is installed, inclusive of a design can also be pavers, stone ballast and planters. An insulation layer may or may not be needed.

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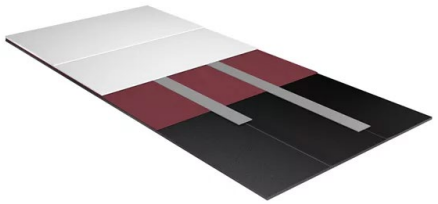
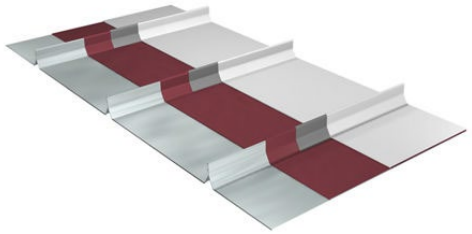
Sika® ROOFING

CHOOSING THE RIGHT LIQUID APPLIED ROOFING/WATERPROOFING



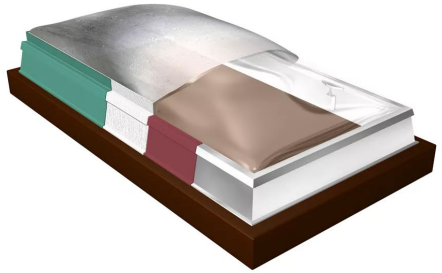
EXISITNG ROOF RECOVER SYSTEM

Exposed roof refurbishment for common roofing substrates, also for use as maintenance, emergency repairs and flashing membrane.



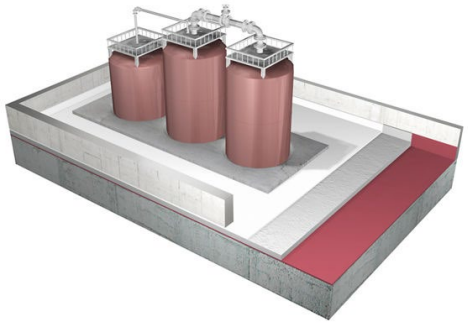
METAL RECOVER SYSTEM

Exposed roof refurbishment for most common roofing substrates, also for use as maintenance, emergency repairs and flashing membrane.



SKYLIGHT RESTORATION SYSTEM

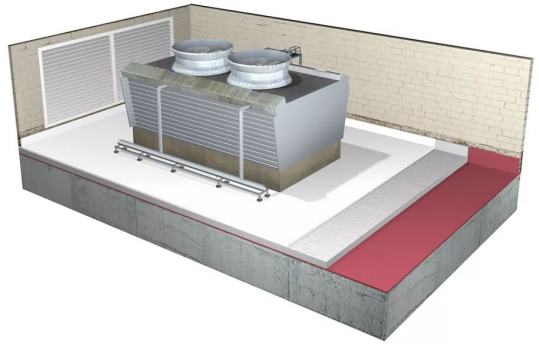
Application for protecting skylights and glazing's against air, rain, snow, and dirt ingress. Its transparent finish retains the appearance of the underlying substrate and still allows light to pass through. The Clearglaze is used in conjunction with Sikalastic RoofPro resins and reinforcement for a complete system.



CHEMICAL CONTAINMENT SYSTEM

Chemical Containment Systems are generally secondary systems used to contain accidental spills or drainage. When located on a roof, it is most important to make sure these areas are leakproof and impenetrable to protect the building, its occupants, and the surrounding environment.

CHOOSING THE RIGHT LIQUID APPLIED ROOFING/WATERPROOFING



COOLING TOWER SYSTEM

Cooling towers situated on the roof can be small or large, singular or multiple and emits a lot of steam producing constant dripping condensation. The surface areas surrounding the tower(s) need to watertight including around drains or penetrations used for the function of the towers.

Sustainable Building Components®

DIRECT TO SUBSTRATE

RECOAT & NEW

Sika® ROOFING

Roof refurbishment is increasingly more important in today's construction world as a sustainable way of extending an existing roof's lifespan. Buildings are typically built with a design that is intended to have a 50-year life. The roofs on the buildings will most likely need maintenance or refurbishment at certain stages throughout this lifetime to ensure continuous protection against water ingress and other climate-related exposures. One of the biggest advantages of liquid applied membranes is that the existing roof does not need to be torn off to be revived.

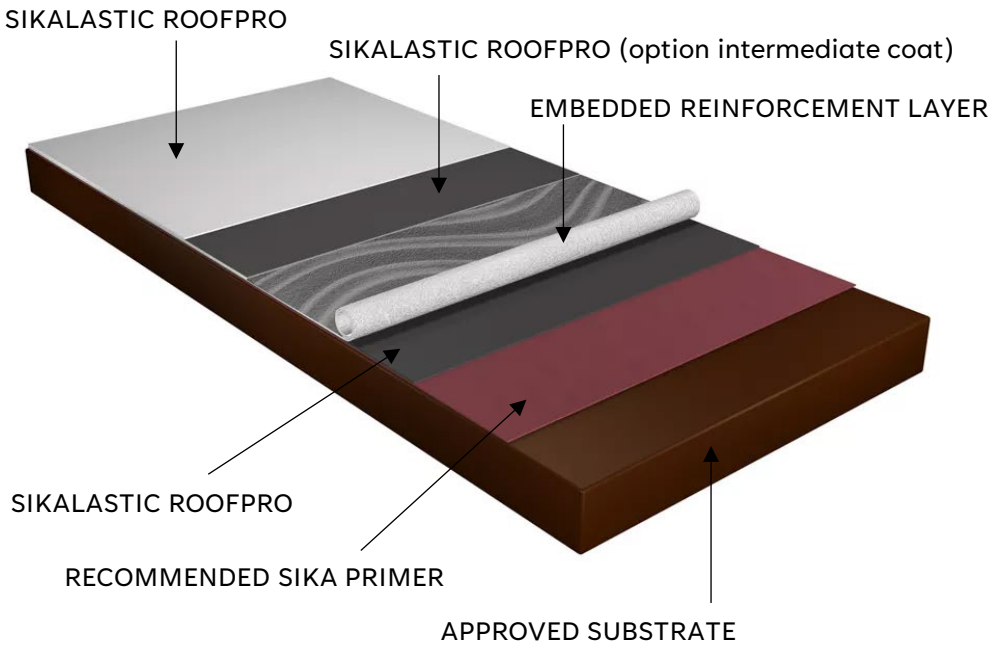
SBC CHICAGO

Sustainable Building Components®

DIRECT TO SUBSTRATE

RECOAT & NEW

SIKA® ROOFING



SYSTEM BENEFITS

- Easy to adjust to complex details
- Ideal for refurbishment
- No penetration of the existing roof deck
- Extend life cycle of old or leaking roofs without interruption
- Monolithic from substrate, to walls, and around penetration
- Difficult to access spaces easy to apply

Sustainable Building Components®

DIRECT TO SUBSTRATE

RECOAT & NEW

Sika ROOFING

Sika liquid applied membranes are applied directly over the existing roof surface or to the structural deck. An inspection to ensure the substrate's integrity, a proper cleaning and appropriate primer and the roof can be given a new life with a warranty. The choice is yours to use any of the Sikalastic single-component or two-component systems.

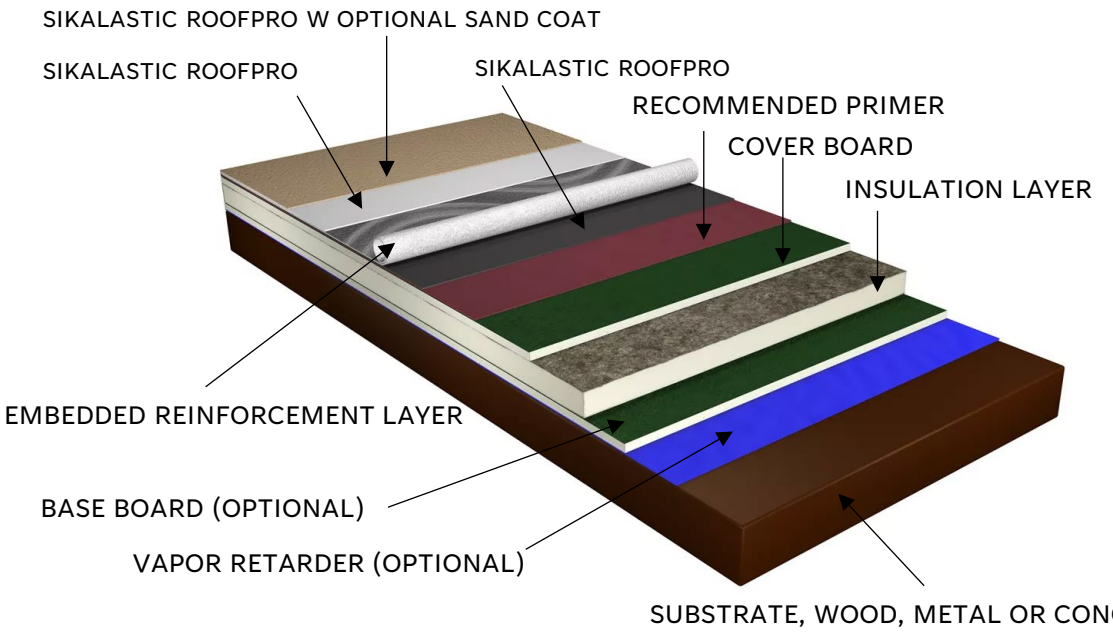
Sustainable Building Components®

BUILT UP INSULATED

FLEXIBLE FUNCTIONALITY

Sika® ROOFING

Whether new construction, roof replacement, or upgrading existing roofing systems with insulation, a Sikalastic RoofPro Built-Up Insulated assembly can get the job done. Extend the life cycle of old or leaking roofs without interruption. Given its highly elastic, seamless features and abilities to retain flexibility even in cold climates, RoofPro provides a lower risk of failure and longer life expectancy than traditional roofing options.

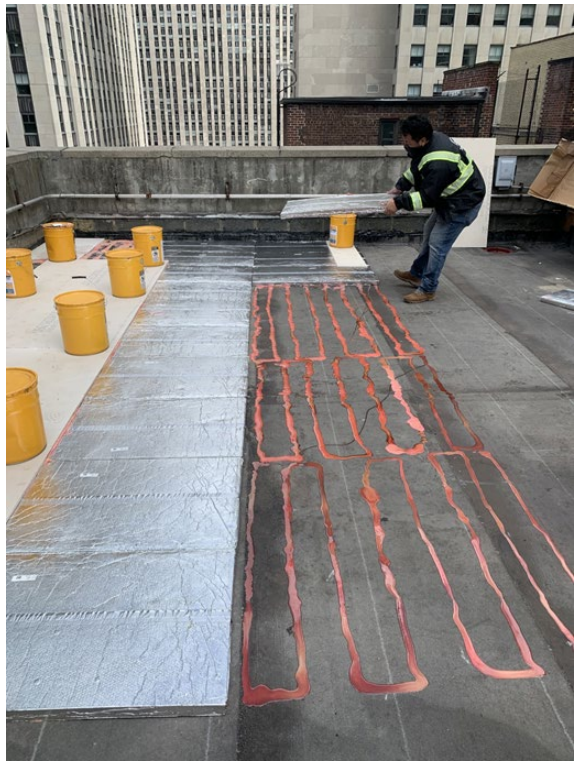


SYSTEM BENEFITS

- Additional thermal insulation
- Seamless waterproofing
- No penetration of the roof deck
- Single-Source Warranties Available
- Over 35-year track record
- Moisture triggered chemistry that is rapidly weatherproof after application
- Low VOC, low odor
- Highly elastic and crack bridging
- Seamless and fully adhered
- Vapor permeable
- UV resistant and non-yellowing

BUILT UP INSULATED

EXAMPLE PHOTOS



Sustainable Building Components®

PLAZA DECK, TERRACE, BALCONY & PATIO SYSTEM

YOUR CHOICE

Sika® ROOFING

What do you want your surface to look like? Whether choosing a customized Quartz aggregate, a patterned design, mortar set tile, split slab, custom pedestal paver, or nonskid surface, Sikalastic RoofPro systems are the compatible resin to complete your vision. The options are unending and only stop where your imagination does. Contact a Sika Representative to help you professionally create your space.

SYSTEM BENEFITS

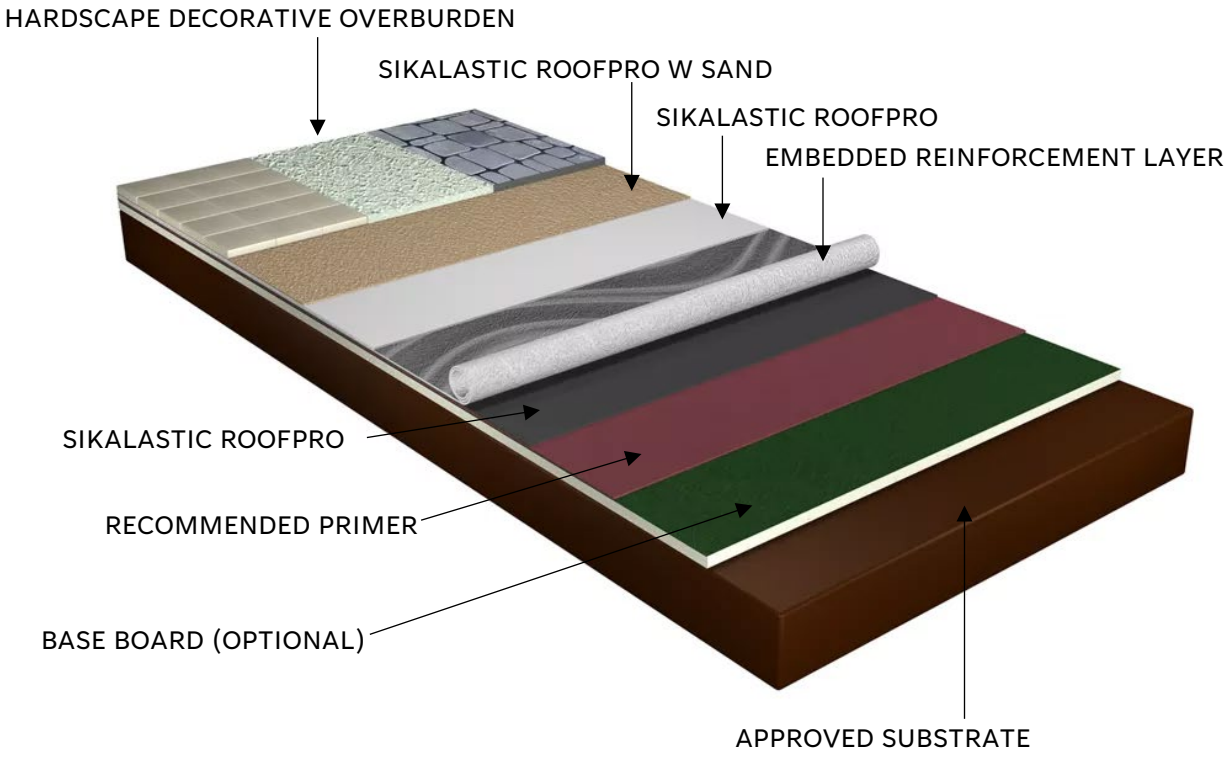
- RoofPro resin is aliphatic single component
- Easy to apply, no mixing
- Alkaline resistant for inverted or Conventional installations
- Fully reinforced below grade waterproofing
- Sustainable designs

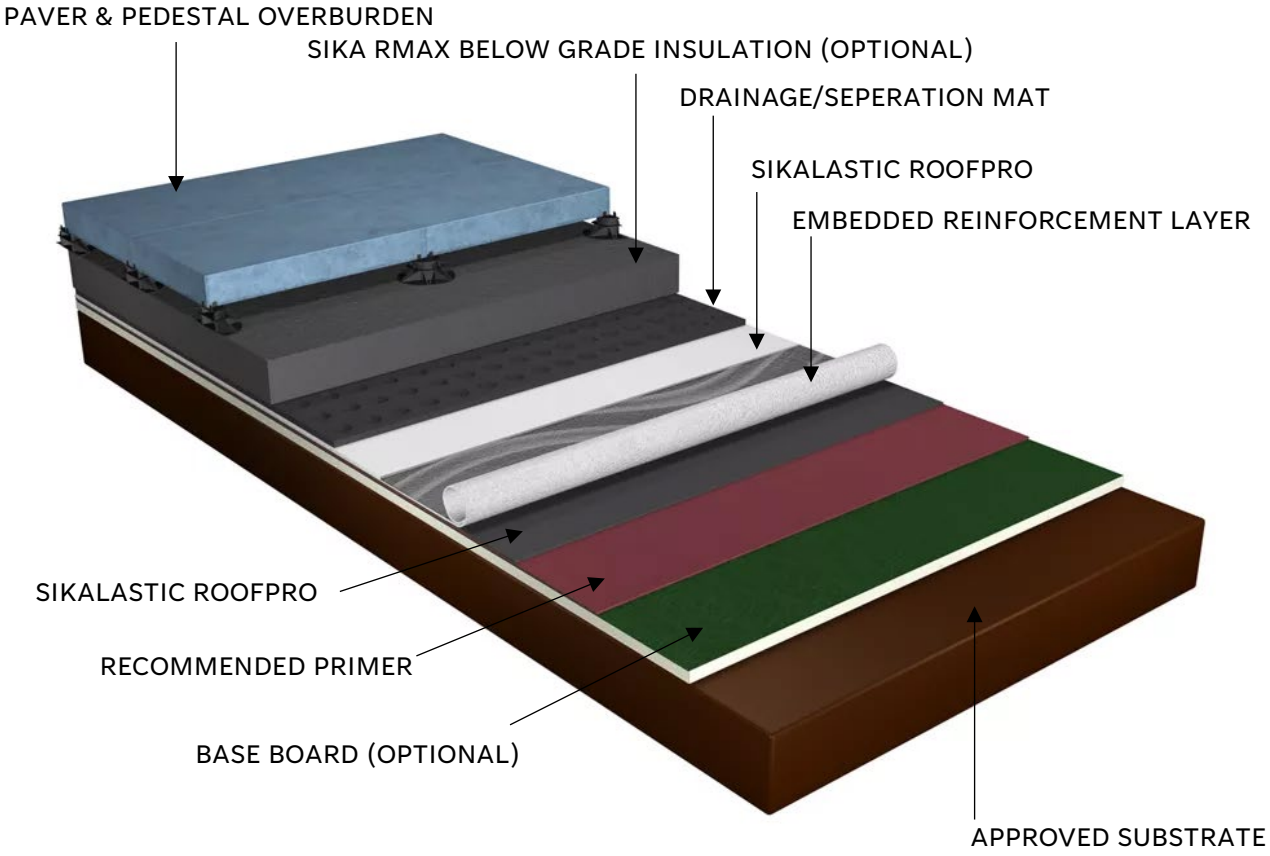
Sustainable Building Components®

PLAZA DECK, TERRACE, BALCONY & PATIO SYSTEM

TYPICAL ASSEMBLIES

Sika® ROOFING



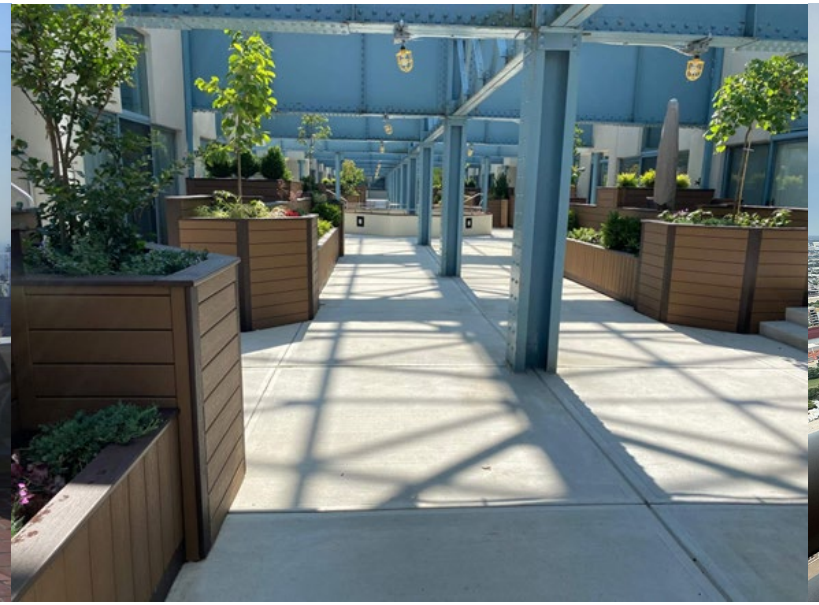


Sustainable Building Components®

PLAZA DECK, TERRACE, BALCONY & PATIO SYSTEM

TYPICAL APPLICATIONS

Sika® ROOFING



Sustainable Building Components®

GREEN (VEGETATED) ROOFS

DURABILITY MEETS SUSTAINABILITY

Sika® ROOFING

With increased desire and requirements to make buildings perform sustainably, green roofs have become a “growing” option in the industry. Green roofs are planted areas on flat or sloped roofs. Conventional gardens on rooftops generally consist of a few pots and planters. Green roof systems can cover the whole roof area with the cultivation of plant life, including planters. These areas can also be used as a place of enjoyment or recreation. Sika’s durable, sustainable, and advanced roofing/waterproofing systems are a solution to make green roofs and planters possible.

GREEN ROOF BENEFITS

- Filtration and drainage
- Storm-water retention
- Reduction in energy consumption
- Reduces urban heat island effect
- Increased property value

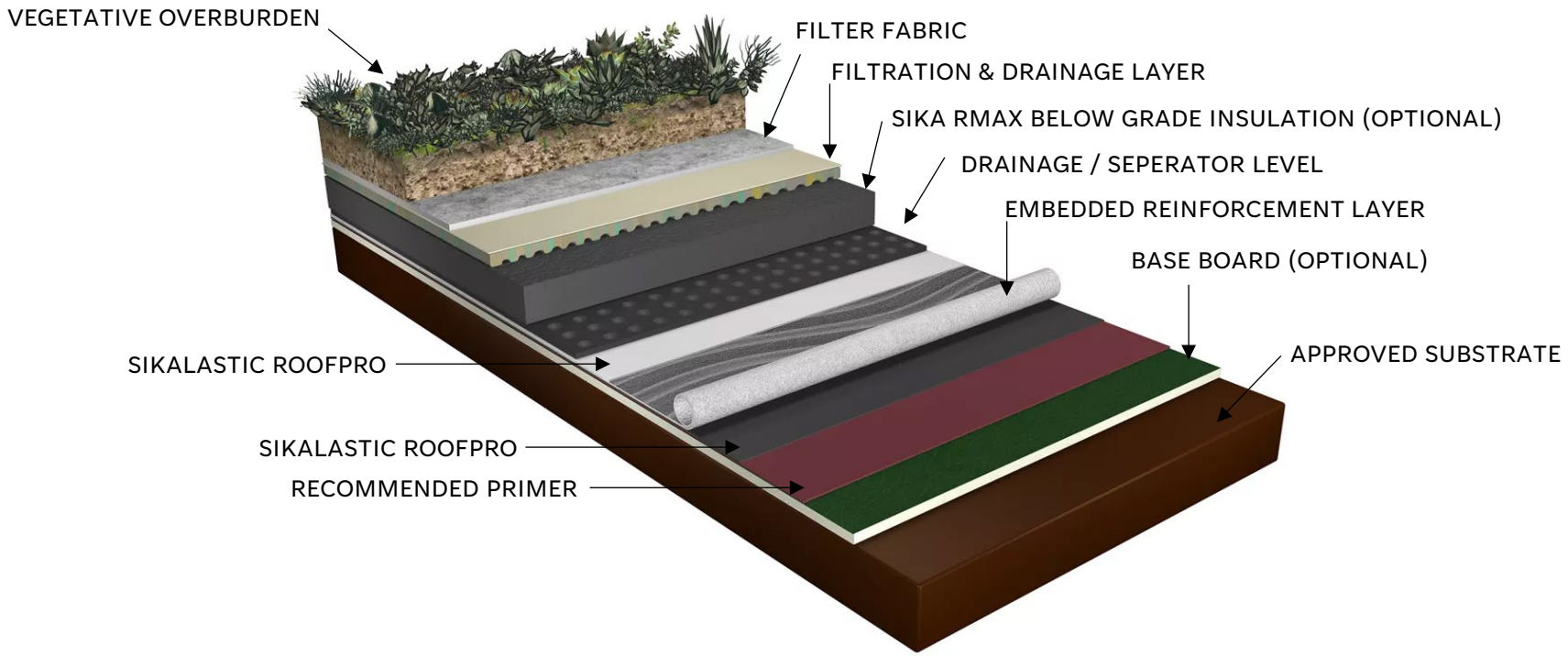
Sustainable Building Components®

GREEN (VEGETATED) ROOFS

ECONOMICALLY AND ENVRIONMENTALLY EFFICIENT

Sika® ROOFING

As an insulator, green roofs can reduce peak energy demand by lowering a building's cooling costs in the warmer summer months and reduce heating costs in the cooler and cold winter months. Environmentally the green roof can improve the overall surrounding temperature. More green roofs and fewer dark colored roofs can help an area's climate be more temperate. Dark roofs retain heat, light roofs reflect heat, green roofs are a moderating alternative.



Sustainable Building Components®

EXISTING ROOF RECOVER SYSTEM

COST EFFECTIVE SOLUTION

Sika® ROOFING

Sikalastic RoofPro recover solution is an excellent choice to extend the life of your building's existing roofing system. Bring value back to your roof while saving with a recover project. A simple cleaning, priming, and coating can extend the roof life for up to 25 years with a fully reinforced RoofPro System. A fully reinforced RoofPro system recover can provide a building owner with a true new roofing membrane system. These systems are fully adhered, fully reinforced and fully conformed to the existing roof surface. Once installed the RoofPro system offers the building owner a sustainable solution to recoat at the end of the warranty term. Why pay for tearing off the existing system when you can save money and keep your building watertight with a roof recover?

RECOVER SYSTEM BENEFITS

- Extension of roof life up to 25 years with RoofPro
- Easy to apply
- Fully adheres to substrate
- Suitable for many different roof structures and a multitude of substrates
- Added weight of less than 1lb per square foot
- Available in reflective white, standard colors, and custom colors.
  - White, Standard Gray, Steel Gray, Mushroom, Copper Geren, Pearl Gray
  - Custom Colors: 120 pail minimum order

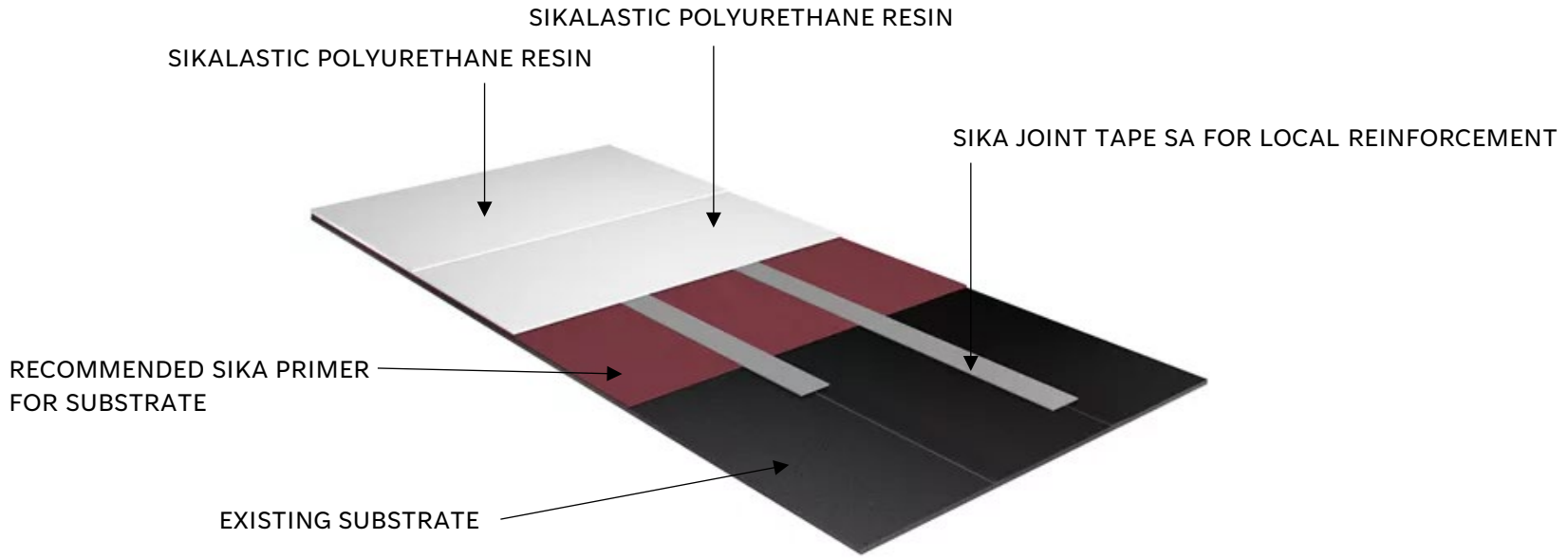
Sustainable Building Components®

EXISTING ROOF RECOVER SYSTEM

EASE, EFFICIENCY, & SOLUTIONS

Sika® ROOFING

Determining a roof's suitability for recover includes a visual inspection and a moisture scan to ensure there will be no trapped moisture under the recover application. RoofPro products are easy to apply: no mixing, no stirring, just dip with a roller and apply. Significantly enhance an existing roof with a recover of a RoofPro systems. Prolong the life of Mod-Bit, EPDM, TPO, PVC, Hypalon, and metal roofs. Choose from reflective white, standard colors, and custom colors.



Sustainable Building Components®

METAL RECOVER SYSTEM

COST EFFECTIVE SOLUTION

Sika® ROOFING

Sikalastic RoofPro and RoofCoat metal recover solutions are an excellent choice to extend the life of your building's metal roofing system. Bring value back to your roof while saving with a recover project. A simple cleaning, priming, and coating can extend the roof life for up to 20 years with RoofCoat or RoofPro. A RoofCoat system is a locally reinforced recover, and the RoofPro recover can provide a building owner with a true new roofing membrane system that is fully adhered, fully reinforced and fully conformed to the existing roof surface.

RECOVER SYSTEM BENEFITS

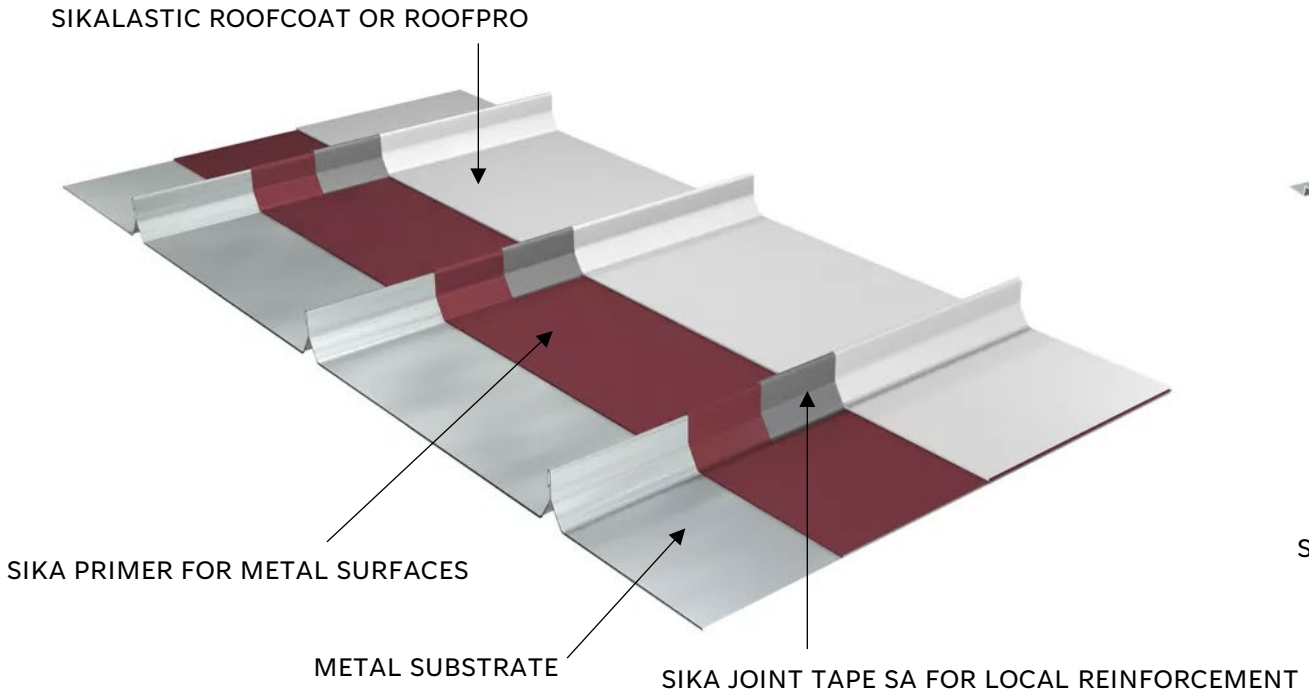
- Extension of roof life up to 20 years with RoofPro
- Extension of roof life up to 20 years with RoofCoat
- Easy to apply
- Fully adheres to substrate
- Added weight of less than 1lb per square foot
- Available in reflective white, standard colors, and custom colors
  - White, Standard Gray, Steel Gray, Mushroom, Copper Geren, Pearl Gray

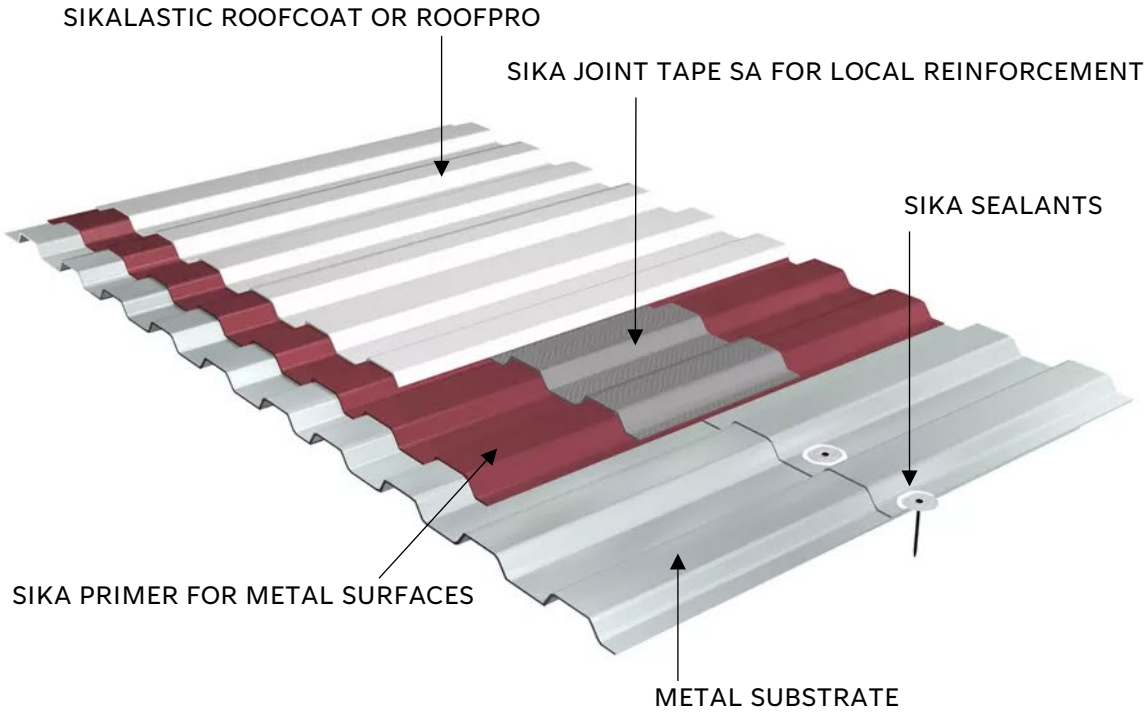
Sustainable Building Components®

METAL RECOVER SYSTEM

TYPICAL ASSEMBLIES

Sika® ROOFING





Sustainable Building Components®

METAL RECOVER SYSTEM

EXAMPLE PHOTOS

Sika® ROOFING

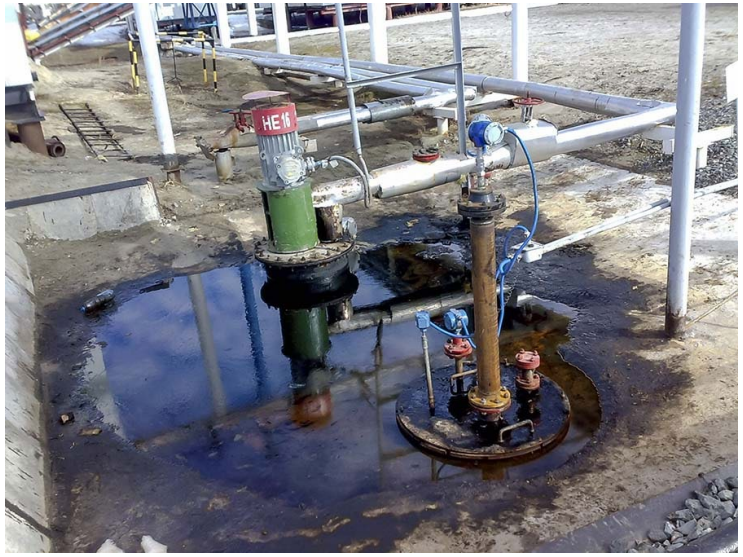
Determining a metal roof's suitability for recover includes a visual inspection for rust, loose fasteners, lap seams and penetrations. A moisture scan to ensure there will be no trapped moisture under the recover application. RoofPro and RoofCoat products are easy to apply: just dip and roll or spray to apply. Significantly enhance an existing roof with a recover of either RoofCoat or RoofPro systems; prolong the life of your metal roof.

Sustainable Building Components®

SIKALASTIC TWO-COMPONENT COLD-APPLIED RESINS

Sika® ROOFING

Chemical Containment Systems are generally secondary systems used to contain accidental spills or drainage. When located on a roof, it is most important to make sure these areas are leakproof and impenetrable to protect the immediate building, its occupants, and the surrounding environment. The hard-cured finish of the Sikalastic two-component cold-applied resins are a perfect barrier for such a situation. They are easy to transport and easy to use in difficult-to-access spaces.



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TWO-COMPONENT POLYURETHANE/POLYUREA BASED LIQUID APPLIED MEMBRANES

Sika® ROOFING

The demand for two-component polyurethane/polyurea (PU/PUA) based liquid applied membranes has risen in the last decade.

The fast and efficient application method by two-component spray machines makes it particularly suitable for large surface application and industrial application. Once the product is mixed in front of the application nozzle and applied to the surface it cures within seconds, allowing a fast over coating or early pedestrian traffic.

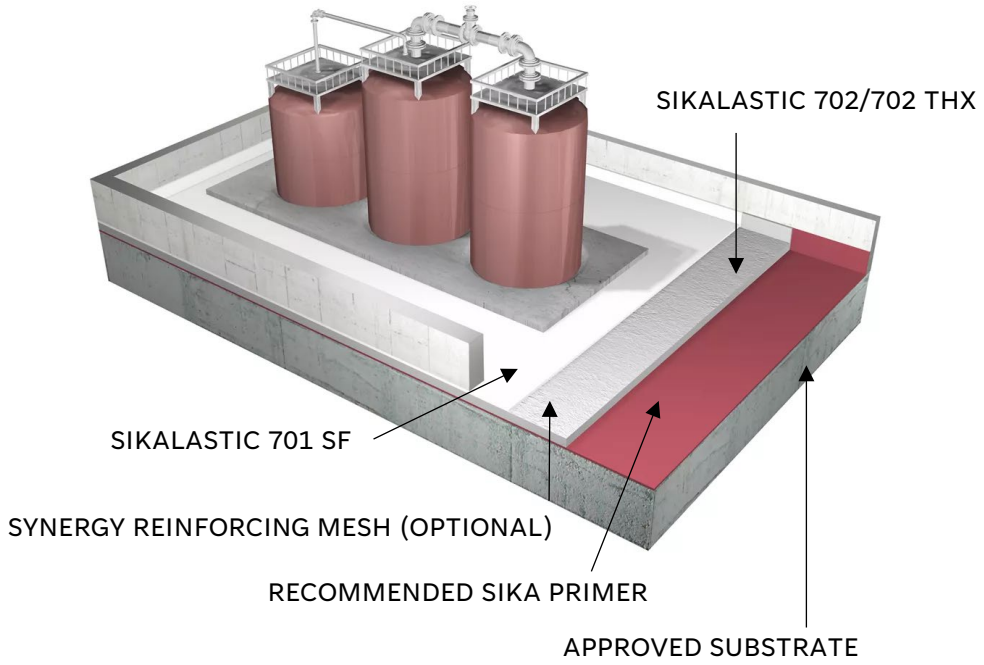
Sika has adapted the two-component PU/PUA hybrid technology to cold applications and hand-applied systems, making it now possible to do installations where hot spray is not efficient, while maintaining the same performance characteristics.

Benefits	Advantages	Features
More flexibility of application in unstable weather situation Time saving	Trafficable almost immediately after application Rain resistant almost immediately after application Fast overcoating	Very Fast Curing
Time Saving	Fast project progress	Fast application especially for large area
Economical waterproofing solution: very cost saving	High material yield	Solvent free and 100% solids

Sustainable Building Components®

CHEMICAL CONTAINMENT

ROOFING



SYSTEM BENEFITS

- Seamless roofing and waterproofing
- VOC content significantly below the industry standard
- Easy application
- Ideal for either refurbishment or new construction
- Reinforced or unreinforced system options
- Fully adheres to substrate
- Suitable for many different structures and substrates
- Split slab application
- Robust chemical resistance
- Cured product remains highly flexible

Sustainable Building Components®

COOLING TOWER

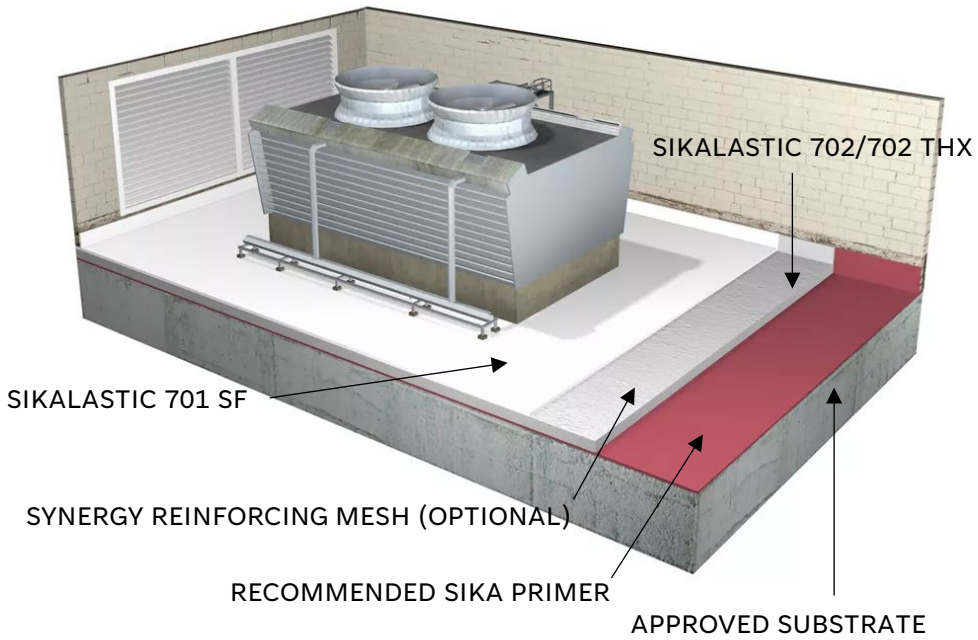
Sika® ROOFING

Cooling towers situated on the roof can be small or large, singular or multiple and produce a lot of steam producing constant dripping condensation. The surface area surrounding the tower(s) needs to be watertight including around drains or penetrations used for the function of the towers. Sikalastic two-component cold-applied resins can be the exposed protection and/or the waterproofing barrier in these areas. Sikalastic two-component resins cure quickly, remain flexible, and are a very reliable containment system to keep the occupied space below watertight. The resins also have very Lo-VOC content to help meet sustainability goals.

Sustainable Building Components®

COOLING TOWER

SIKA ROOFING



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Sustainable Building Components®

SIKALASTIC TWO-COMPONENT COLD-APPLIED RESINS

Sika® ROOFING

The Sikalastic® cold applied two-component product line of resins is formulated to be a quick-curing, self-smoothing, high gloss, high chemical resistant membrane. The system is made up of a polyaspartic topcoat and a highly elastic hybrid polyurea base coat. The 100% solids allow for a VOC content that is well below industry compliance making it a sustainable option. Reinforced or unreinforced systems perform both as roofing or waterproofing solutions per project design criteria. Suitable roofing and waterproofing applications include new construction, replacement/recover, chemical containment, and cooling tower areas. The highly elastic nature of these products makes them a perfect choice for a multitude of climates and weather conditions.

Sustainable Building Components®

SKYLIGHT RESTORATION

Sika® ROOFING

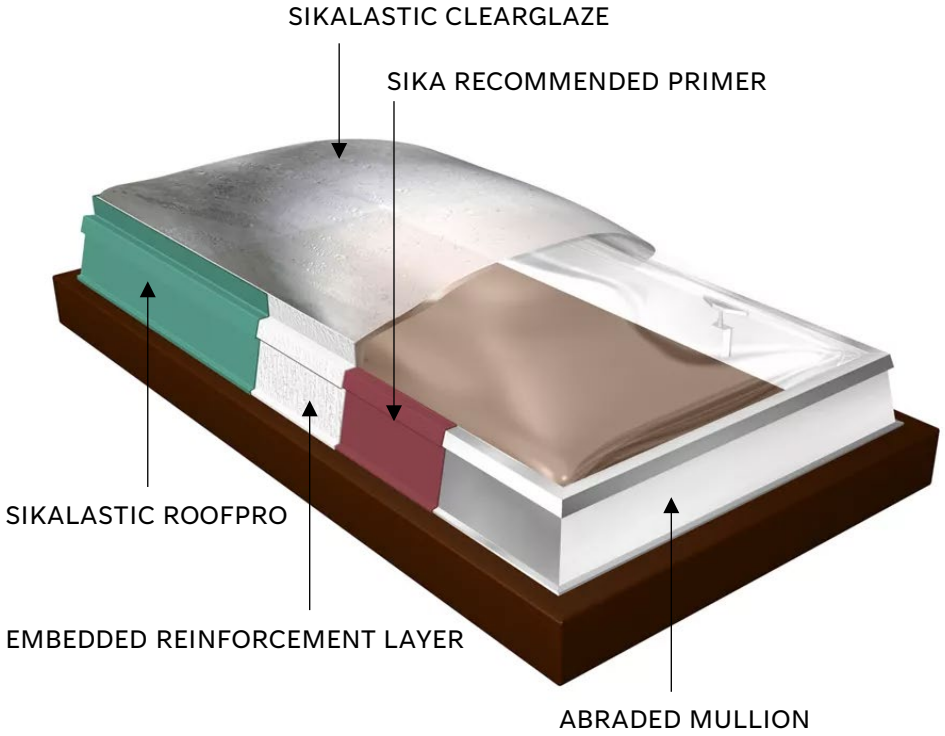
Sikalastic® Clearglaze is a clear, high-solids, polycarbonate aliphatic polyurethane-based coating that protects skylights and glazing against air, rain, hail, snow, and dirt. Its transparent finish retains the appearance of the underlying substrate and still allows light to pass through. This restoration is part of a Sikalastic RoofPro System. Combining toughness with excellent adhesion, the Clearglaze provides a great alternative to expensive replacement of leaking/deteriorated skylights while enhancing the shatter resistance of the original glass. Local reinforcement can repair existing cracks with limited blurring.

SBC CHICAGO

Sustainable Building Components®

Sika® ROOFING

SKYLIGHT RESTORATION



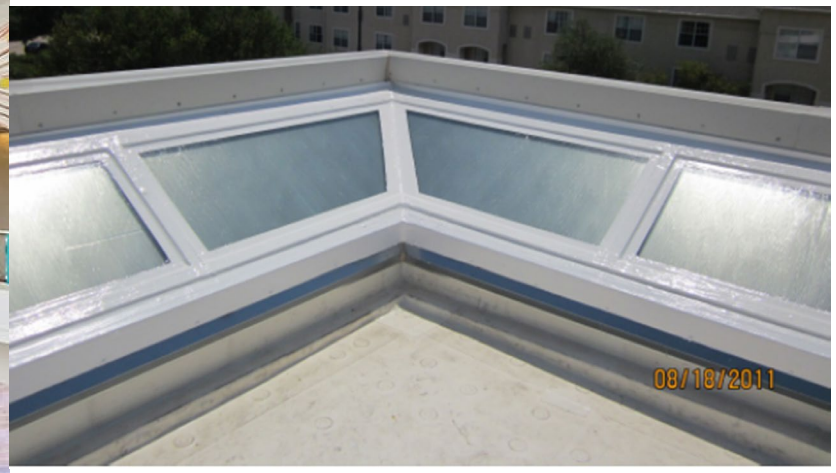
SYSTEM BENEFITS

- Provides transparent watertight protection
- Single component - Easy and fast application
- Up to 10 years system warranty
- UV Stable - Does not discolor with age
- Great direct adhesion on various substrates
- Resists freeze-thaw damage
- Enhances glass shatter resistance
- Moisture-triggered cure limits effects of inclement weather during application
- Great for emergency repairs after weather events
- Limited impact to occupied buildings

Sustainable Building Components®

Sika® ROOFING

SKYLIGHT RESTORATION



Sustainable Building Components®

SIKA WATERPROOFING SOLUTIONS HAVE MANY ADVANTAGES

Sika ROOFING

- Sika's solutions are suitable for even the most challenging requirements to keep water in or out of long-lasting structures, challenging projects, and balconies.
- Sika has developed solutions for special site conditions, including microbiological and chemical attack resistant products, high mechanical resistance products, free of physically linked plasticizers and ecologically sustainable products.
- We consider the entire waterproofing process to the very last detail and can provide solutions for both new build and renovation projects.
- Sika’s long-term experience and know-how to provide both products and system solutions is a key added value for your next project.

Sustainable Building Components®

SIKA BRINGS ADDED VALUE TO PROJECTS

Sika® ROOFING

- Concepts, specifications and detailing
- Application training and on-site support
- Warranties – Up to (25) years with certain systems
  - Material, Material & Labor, Single-Source, NDL
- Proven quality control systems
- Analysis of leaks in existing structures

Sustainable Building Components®

COMMON MISTAKES DURING APPLICATION OF SIKA LIQUID APPLIED SYSTEM?

SIKA ROOFING

Details:

- Angle changes – missing cant or reinforcement
- Leading edge at self-terminating points
- Protruding Fibers (cut/sanded)
- Not meeting minimum thickness requirements for warranty
- Pinholes; exposed reinforcement

Discussed with the contractor that the Reemat and coating is required over the flexi tape / SA tape.

All pinholes and areas with exposed Reemat will need to be properly repaired. Remove all loose not adhere areas, solvent wipe with denatured alcohol or acetone to remove all dirt/debris, install specified Sikalastic 621TC base coat and embed Reemat with minimum 2" overlap, then final topcoat per product data sheet.

All Reemat protruding fibers will need to be cut /sanded and coated as discussed on site with the crew.

Sustainable Building Components®

COMMON MISTAKES DURING APPLICATION OF SIKA LIQUID APPLIED SYSTEM?

Sika® ROOFING

Details:

- Angle changes – missing cant or reinforcement
- Leading edge at self-terminating points
- Using the reinforcement in the primer vs base coat
- Not meeting minimum thickness requirements for warranty
- Pinholes; exposed reinforcement
- Not using the correct primer for certain applications. Important to document the moisture in the concrete substrates and use the correct primer.

The two test cuts were 52-54 mils. This does not meet the Sikalastic 644 Lo-VOC warranty requirements of 60 mils (Dry). An additional topcoat of 10+ mils would need to be applied.

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SIKA LAM DESIGN CONSIDERATIONS

ROOF RECOVER OR REPLACEMENT

Sika® ROOFING

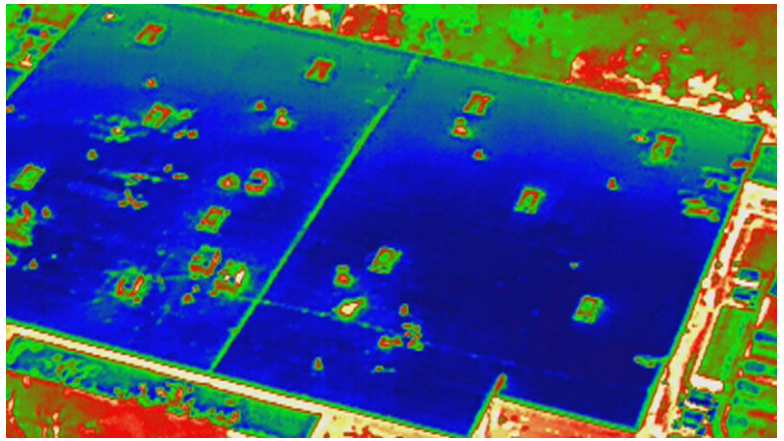
SBC CHICAGO

SIKA LAM DESIGN CONSIDERATIONS

ROOF RECOVER

DESIGN CONSIDERATIONS – ROOF RECOVER

- Roof Load Capacity: Evaluate the building's structure to ensure it can support the weight of the new roofing material. Heavier materials may require additional structural reinforcement or additional engineering. Are there any code compliance issues?
- Is the roof a suitable candidate?
- Is the roof system dry?
- Is the roof system well secured to the deck?
- What is the physical condition of the existing membrane?
- Will the LAM adhere to the existing membrane?
- What longevity/warranty will be obtained?
- Cost/Benefit Analysis
- Must be valuated on an individual basis
- What type of warranty will be provided by the manufacturer and applicator?



SIKA LAM DESIGN CONSIDERATIONS

DESIGN CONSIDERATIONS – ROOF RECOVER

SOLAR REFLECTIVITY

- Increase solar reflectivity and energy efficiency of the building (in white)
- Can reduce cooling costs in warm climatic conditions
- Can increase the efficiency of solar roofs
- We also have darker colors if solar reflectivity is not a concern or requirement

Sustainable Building Components®

SIKA LAM DESIGN CONSIDERATIONS

DESIGN CONSIDERATIONS – ROOF REPLACEMENT

Sika® ROOFING

What is the usage of the building and roof?

- Is it an occupied building?
- Are there going to be complaints about any potential kettles, odors, open flames, etc.
- Is there any residual moisture in the decking? If so, how is this going to be corrected? Who is going to sign-off on the substrate?
- Is there going to be a lot of maintenance traffic on the roofing / waterproofing areas?
- Do you want to use the roofing / waterproofing areas as a therapeutical recreational area?

Do we need to minimizing disruptions to business operations or the occupied building?

- Noise and Dust Control: Roofing work can be noisy and create dust. It's important to communicate with tenants or business owners to alert them about potential disruptions and to implement noise and dust control measures (e.g., using tarps, sound barriers, or closed-off areas)

Building Code Compliance

- The roof replacement must meet the building codes of the local municipality, which may include considerations for wind load, snow load, fire ratings, and energy efficiency. You should confirm that the roof's structural integrity is up to code. Is the building FM Insured?
- How much insulation needed to meet the Energy Code?
- Does this cause height issues requiring alterations?
- How do I achieve positive drainage?
- Deck sloped or Tapered Insulation
- What wind uplift rating is required?
- What color membrane should I use? code requirement?

Environmental Considerations

- Sustainability: Consider using eco-friendly materials, such as Lo-VOC products or cool roofing systems, which reduce energy consumption and the building's carbon footprint. Also see if the Manufacture has any Cradle-to-Grave declared products.
- Green Roofs: If the space allows and the building's load capacity can support it, a green roof with vegetation may be an option. Green roofs provide insulation benefits and can contribute to stormwater management and improved air quality.
- Waste Disposal and Recycling: Plan for how old roofing materials will be removed and recycled. Roofing waste can be substantial, so working with contractors who prioritize recycling can reduce the environmental impact.

SIKA LAM DESIGN CONSIDERATIONS

DESIGN CONSIDERATIONS – ROOF REPLACEMENT

Budget and Financing

- Is it an occupied building?
- Are there going to be complaints about any potential kettles, odors, open flames, etc.
- Is there any residual moisture in the decking?
- Is there going to be a lot of maintenance traffic on the roofing / waterproofing areas?
- Do you want to use the roofing / waterproofing areas as a therapeutical recreational area?

Warranty and Insurance

- Warranty: Ensure that both materials and workmanship come with appropriate warranties, especially for commercial buildings, where replacement can be costly. Fully understand what type of warranty is specified and or being requested by the Owner.
- Comprehensive Warranties: Ensure the manufacturer offers comprehensive warranties for both materials and workmanship. Most reputable manufacturers offer warranties that range from 10 to 30 years, covering defects, material failure, and other issues that could arise.
- Warranty Details: Carefully review the Manufacturer's warranty terms and conditions to fully understand what is covered (e.g., leaks, material defects, UV damage) and any exclusions (e.g., damage from improper installation, ponding water, foot traffic). It's highly recommended to obtain an 'Intent to Warranty Letter' from the manufacturer during the design phase. This letter should outline each cross-section of the roof/waterproofing system. Additionally, it's beneficial for the manufacturer's Technical Department to review the project details prior to bidding, ensuring that all aspects are clear and avoiding potential surprises later on. This proactive approach can help minimize change orders and ensure a smoother project for everyone involved.
- Transferability: For commercial buildings, check if the warranty is transferable if the building is sold. This adds value to the property and can reassure future owners about the roof's reliability. Choosing a well-known and reliable manufacturer not only guarantees product quality but also provides peace of mind when it comes to potential warranty claims.
- Insurance: Verify that the roofing contractor has appropriate insurance coverage in case of accidents or damage during installation. Also verify that you are working with a well known roofing manufacturer that has FM Approvals, if required, or third-party testing for fire and wind uplift ratings.

Choose a well-known manufacturer and applicator

- Reputation: Work with manufacturers and applicators that have established a solid reputation in the roofing industry. Well-known brands often have a long history of producing durable, high-quality products.
- Check Financial Health: Research the financial stability of the roofing manufacturer. A company's ability to honor warranty claims often depends on its financial health. You can check ratings through credit agencies (e.g., Moody's, Standard & Poor's) or via online industry reports.
- Financial Records: If you're concerned about the manufacturer's financial stability, request any available financial reports or stability certifications that indicate the company's capacity to meet its long-term obligations.
- Job-Site Visits: Require in the specification that the Manufacturer's Technical Representative visits the project and provides a detailed technical report with photos.

SIKA LAM DESIGN CONSIDERATIONS

DESIGN CONSIDERATIONS – ROOF REPLACEMENT

Work with Experienced Contractors

- Installation is Key: Even with the best materials, poor installation can void a warranty or cause problems down the line. Ensure you work with a certified contractor who is experienced in installing the manufacturer's system(s) and is familiar with the specific manufacturer's installation requirements.
- Manufacturer-Approved Contractors: Some manufacturers offer an approved contractor network. These contractors have been trained and certified by the manufacturer, ensuring that you're roofing or waterproofing system is installed correctly and that you're covered under warranty.

Choose a well-known manufacturer and applicator

- Reputation: Work with manufacturers and applicators that have established a solid reputation in the roofing industry. Well-known brands often have a long history of producing durable, high-quality products.
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Evaluate Manufacturer Support

- Customer Support: Ensure that the manufacturer has a reliable Customer Service and Technical team that can respond to any issues or questions that arise. Good support during installation and throughout the warranty period is critical to resolving problems quickly.
- Maintenance and Inspection Guidance: Choose a manufacturer that provides clear guidelines on maintaining the roof to keep the warranty valid. Some manufacturers also offer periodic roof inspections or maintenance recommendations to help prolong the life of the roof.

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COMMON QUESTIONS

ROOFING

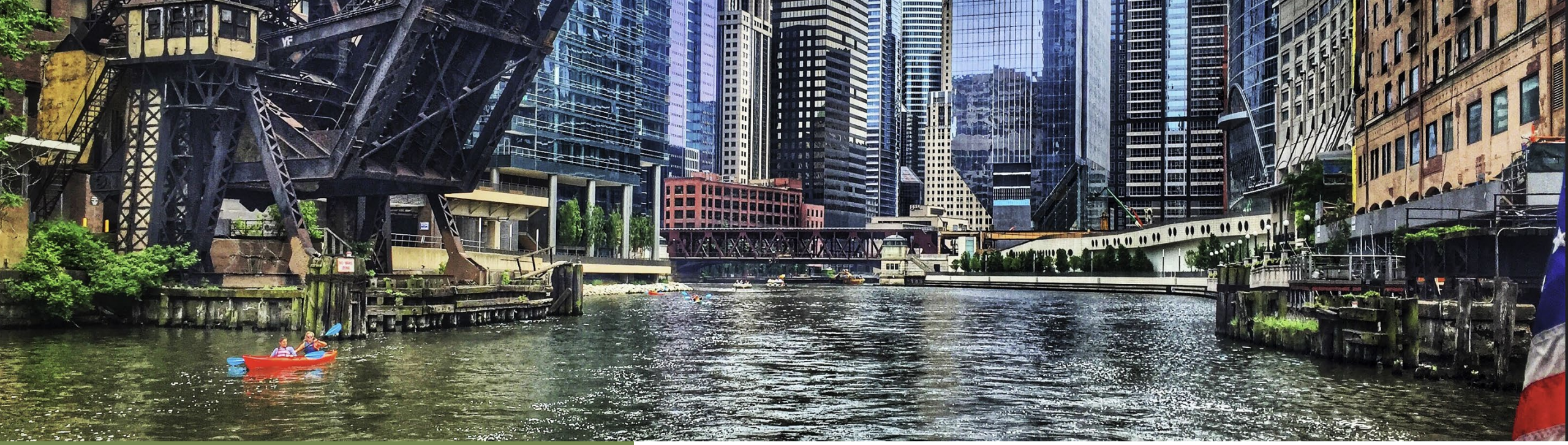
COMMON QUESTIONS	ANSWER
What are the temperature restrictions?	Ambient & Substrate Temperature 41° F min. 140° F max. Service Temperature -22 – 176° F intermittent.
What is the pot life for the different resins?	Sikalastic 621 TC & 624WP resins are designed for fast curing. High temperatures combined with high air humidity will increase the curing process. Material in opened containers should be applied immediately. In opened containers, the material will form a film after 1 hour approx. (75°F / 50% R.H.)
What is the shelf life for the products?	Sikalastic 621TC & 624WP – 9 Months Sikalastic 641 & 644 Lo-VOC – 15 Months for 5-Gal. Sikalastic 641 & 644 Lo-VOC – 9 Months for 50-Gal. Drums
Do I have to add a catalyst to any of the products?	No, Single Component
What are the warranty terms offered by Sika?	10-25 Year RoofPro – Limited Material, Limited Labor & Material, Single-Source and Single-Source NDL warranties. 10-20 Year RoofCoat – Limited Material & Limited Labor & Material
Do I need a cant at each transitions?	Yes, Sika 11FC Polyurethane Sealant. Only waiting for sealant to skin over. Depending on temperatures as fast as 20 minutes in warmer weather.

Sustainable Building Components®

COMMON QUESTIONS

Sika® ROOFING

COMMON QUESTIONS	ANSWER
Where can I purchase it?	Direct through Sika if you are an Authorized Applicator or local Distribution.
Are there specific meanings with the Sikalastic product numbering?	1's are for the sun and 4's are for the floor. Meaning 621TC or 641 Lo-VOC are meant to be left exposed and 624WP or 644 Lo-VOC are meant to be covered with a cementitious product like thin set and tile.
What reinforcement should I use in the main roofing / waterproofing area? Sike Reemat (fiberglass) or Sika Fleece (polyester)	Depends on what the client wants and installers choose. Both will provide the same warranty. Sika Reemat is seamless and user friendly.
What reinforcement should I use at transitions and on vertical substrates?	Use Sika Flexitape or Joint Tape SA as local reinforcement at board joints, seams and transitions. Use Sika Reemat Premium or Sika Fleece over the entire area of application to be warranted for watertightness.
What primer do I use or specify? There are so many!	There are a lot of different applications that Sikalastic RoofPro can be adhered to. It is best to call a Sika Representative to verify you are specifying or installing the correct primer.



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QUESTIONS

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APPLICATION PORTFOLIO

BUILDING TRUST

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INSULATED BUILT-UP ROOFING

BUILDING TRUST

Sustainable Building Components®

INSULATED BUILT-UP ROOFING

BUILDING TRUST

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TERRACE WATERPROOFING

BUILDING TRUST

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PLAZA DECKS

Sustainable Building Components®

PLAZA DECKS

BUILDING TRUST

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VEGETATED DECKS AND PLANTERS

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FAUX BATTEN SEAM METAL ROOFING

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ROOF RECOVER – MODIFIED BITUMEN

BUILDING TRUST

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ROOF RECOVER - EPDM SINGLE PLY

BUILDING TRUST

Sustainable Building Components®

ROOF RECOVER – OLD SIKALASTIC

BUILDING TRUST

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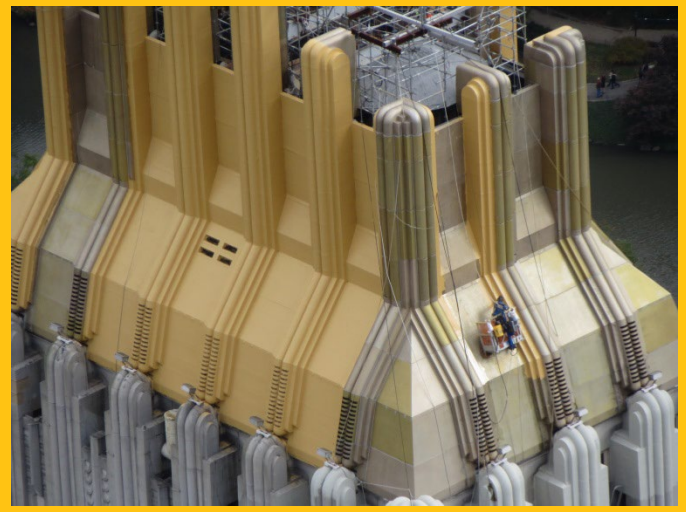
ROOF RECOVER – FIBERGLASS PANELS



BUILDING TRUST

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MECHANICAL ROOF

BUILDING TRUST

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STAIR/PLAZA WATERPROOFING

BUILDING TRUST

Sustainable Building Components®

PROTECTED MEMBRANE ROOFING

BUILDING TRUST

Sustainable Building Components®

PLAZA DECK WATERPROOFING

BUILDING TRUST

Sustainable Building Components®

PLAZA DECK WATERPROOFING

BUILDING TRUST

Sustainable Building Components®

PLANTER AND ENTRANCE DRIVE WATERPROOFING

BUILDING TRUST

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WATER TANK LID WATERPROOFING

BUILDING TRUST

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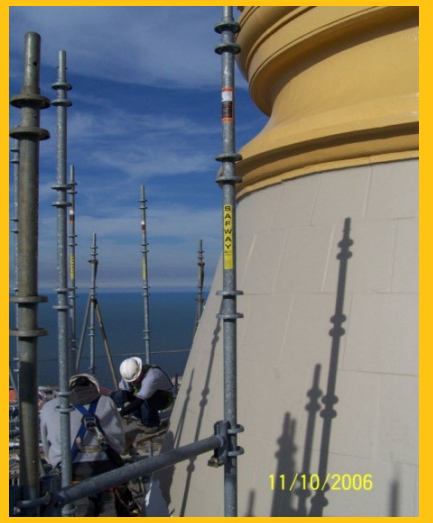
MASONRY WATERPROOFING



NG TRUST

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COPPER RECOVER WATERPROOFING

BUILDING TRUST

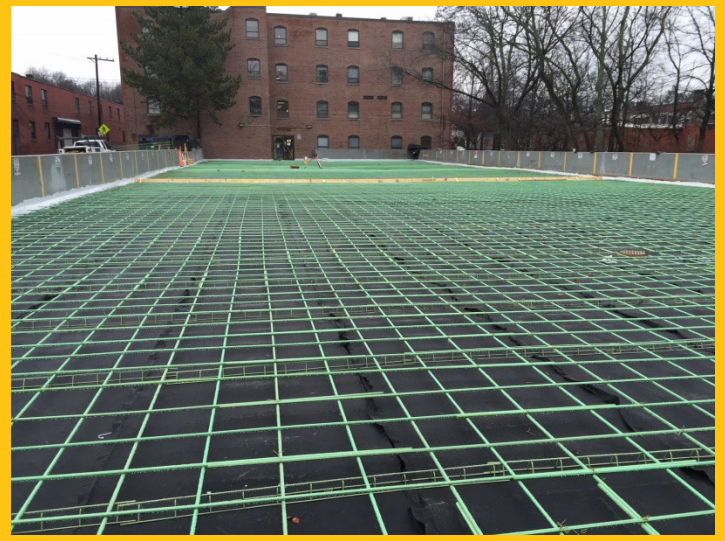
Sustainable Building Components®

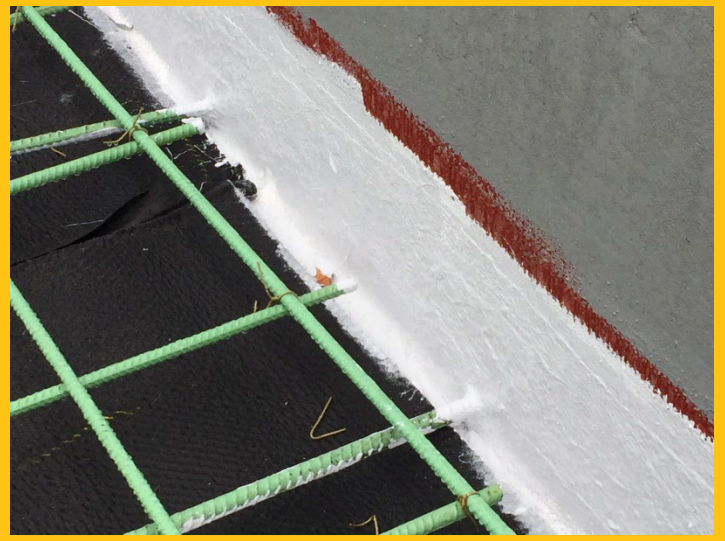
COPPER RECOVER WATERPROOFING

BUILDING TRUST

Sustainable Building Components®

SPLIT SLAB WATERPROOFING





BUILDING TRUST

Sustainable Building Components®

BALCONIES

BUILDING TRUST

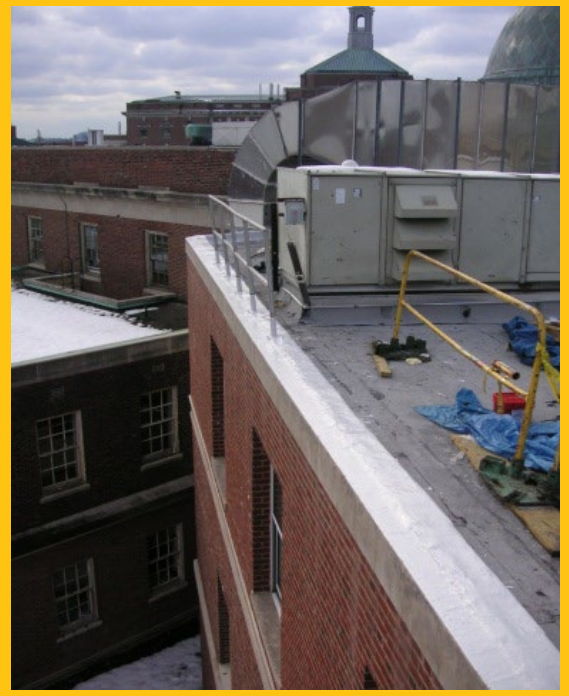
Sustainable Building Components®

BALCONIES

BUILDING TRUST

Sustainable Building Components®

PARAPET WALL AND RAILING POST WATERPROOFING



BUILDING TRUST

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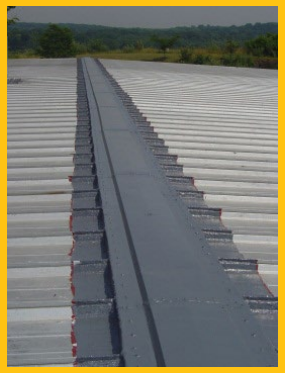
METAL ROOF DETAIL REPAIR



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MODIFIED BITUMEN ROOF DETAIL REPAIR

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DOME ROOFING

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DOME ROOFING

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PARAPET WATERPROOFING

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COPING WATERPROOFING

BUILDING TRUST

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INTERNAL GUTTER WATERPROOFING

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INTERNAL GUTTER WATERPROOFING

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COMPLEX DETAILING

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UNIQUE APPLICATIONS

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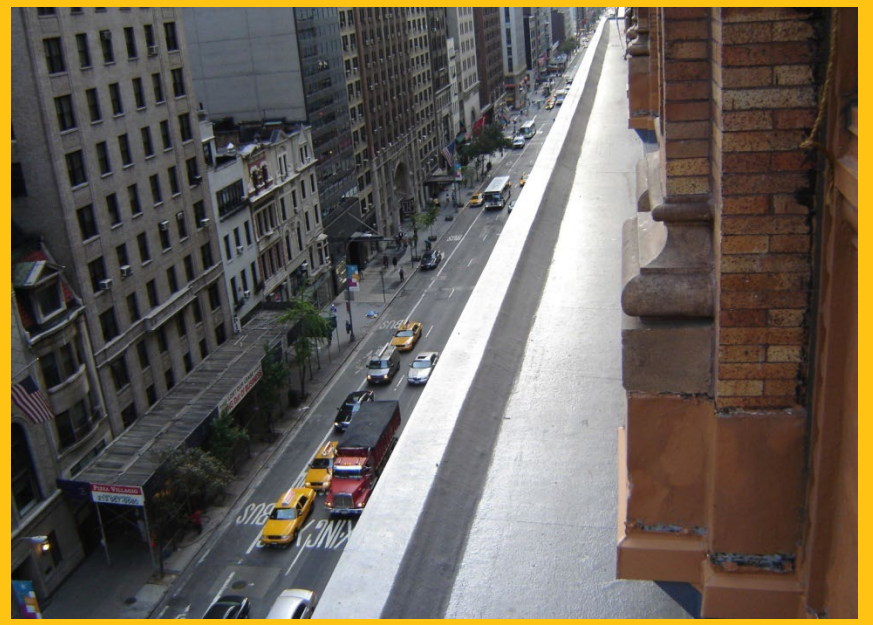
FAÇADE PRESERVATION WATERPROOFING



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FAÇADE PRESERVATION WATERPROOFING

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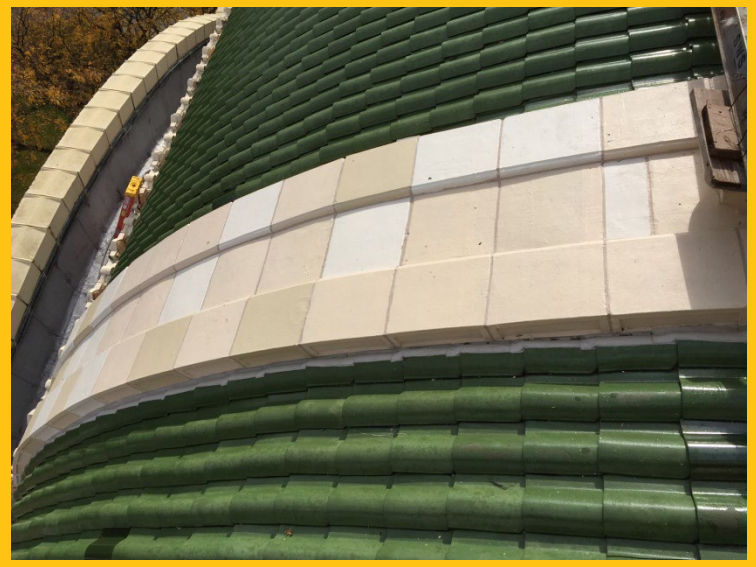
FAÇADE PRESERVATION WATERPROOFING



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SKYLIGHT RESTORATION

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SKYLIGHT RESTORATION

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