ROOFING
Sikaplan® ROOF SYSTEM
PVC PERFORMANCE AT A COMPETITIVE PRICE
Sikaplan® Adhered and Mechanically Attached Roofing Systems are ideally suited for applications that call for a quality, cost effective roofing membrane from a trusted supplier. And who better to trust than the industry leader.

LEADING THE CHARGE
In 1962, Sika pioneered the use of PVC for roofing applications developing the world’s first thermoplastic membrane with billions of square feet sold to date. No one has more knowledge of PVC and thermoplastic roof membranes than Sika. Our Sarnafil roofing and waterproofing membranes are the most trusted PVC sheet for long lasting durability in the industry.

Sarnafil®, the world’s first reinforced thermoplastic roof membrane, is introduced.

Sikaplan reinforced thermoplastic roof membrane is introduced.

The first felt-backed membrane is created.

The first “post-consumer” recycling program of singly-ply roofing is introduced. Membrane “take-back” program reduces waste to landfill.

The first fiberglass, mat-reinforced roofing membrane for adhered applications is developed.

Colored membrane is introduced for the first time ever.

EnergySmart® roof membrane is introduced with high reflectivity and emissivity to promote energy efficiency.

The Sikaplan® membranes boast features such as low maintenance, durability, reflectivity, and watertight performance on roofs of any design, shape or pitch.

MEET YOUR SUSTAINABILITY GOALS
The Sikaplan® membranes are available in EnergySmart white, tan and light gray, with and without a felt backing. EnergySmart white membranes meet the cool roofing requirements of USGBC’s LEED® program, Green Globes® and California Title 24.

INTERNAL GLASS MAT OR POLYESTER SCRIM REINFORCEMENTS
In keeping with Sika’s high standards, an internal glass mat or polyester scrim layer provides superior dimensional stability and/or tear resistance no matter what installation method is used.
SUPERIOR FIRE PERFORMANCE
While fire safety codes have greatly improved over the years, losses from fire are still an ongoing issue. One of the most vulnerable components of a building when exposed to fire is the roof. Being PVC, Sikaplan® membranes are naturally fire retardant.

HOT-AIR WELDED
Like all Sika membranes, Sikaplan® is thermoplastic, allowing seams and flashings to be hot air welded using an automatic hot-air welder. When welded together, the sheets of membrane become one monolithic layer of material impervious to water and moisture infiltration.

LACQUER COATING
Sikaplan® membranes are manufactured with a unique coating, which helps repel dirt and airborne contaminants from the membrane’s surface.

PROFESSIONAL INSTALLATION
As with Sarnafil membranes, Sika allows only authorized applicators to install Sikaplan® roofing systems. These applicators are trained by Sika to ensure a high level of quality.

FIRST-CLASS SERVICE
Technical support services are available. The company’s support team provides the most coverage in the industry with field technicians located in every region of the country.
BENEFIT FROM PVC PERFORMANCE AT A TPO PRICE

From retail facilities to warehouses, Sikaplan® roofing systems have been providing reliable protection to facilities around the world for over thirty years.

SIKAPLAN ADHERED
The Sikaplan® Adhered System is a single ply PVC roofing membrane designed for low-slope roofing applications. The membrane has an internal glass mat reinforcement to provide the best dimensional stability and a low coefficient of thermal expansion and contraction to extend the service life of the roof.

When used in combination with Sikaplan Single-Step Membrane Adhesive™, it is in many cases as cost effective as adhered TPO due to improved adhesive coverage rates and the one-step application versus TPO’s two-steps. This environmentally preferable water-based adhesive also lowers costs by minimizing material usage through the use of recommended application methods and by facilitating faster applications.

SIKAPLAN FASTENED
The Sikaplan® Mechanically Attached System is a single ply PVC roofing membrane designed for low-slope roofing applications. The membrane has an internal polyester scrim reinforcement to provide the tear resistance required for mechanically attached roof systems.

PVC OUTPERFORMS THE OTHERS TIME AFTER TIME
TPO membranes have not experienced the same performance success as PVC and have had a number of failures since being introduced. EPDM seams are glued or taped rather than heat-welded; this seaming method breaks down over time compromising the water tightness. Sikaplan’s proven track record of successful installations spans more than thirty years. Why settle for a less reliable product on your building?

Installed Membrane Cost Comparison* Per Square Foot

<table>
<thead>
<tr>
<th>Material</th>
<th>Per Square Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPO/EPDM</td>
<td>$1.40</td>
</tr>
<tr>
<td>Sikaplan Adhered</td>
<td>$1.32</td>
</tr>
<tr>
<td>Sikaplan Adhered</td>
<td>$1.20</td>
</tr>
<tr>
<td>Sikaplan Fastened</td>
<td>$1.09</td>
</tr>
</tbody>
</table>

* Based on “Sikaplan Adhered Comparison Tool”

120 100 80 60 40 20 0

$1.30 $1.40 $1.20 $1.10 $1.00

106 83 57

1.32 1.09 1.04
**SIKAPLAN MECHANICALLY ATTACHED SYSTEM**

This mechanically attached system is your best choice when speed and ease of installation are important. It features metal plates fastened in the membrane overlap and spaced according to the roof’s wind uplift requirements. It is designed to meet wind conditions on most building types.

**SIKAPLAN ADHERED SYSTEM**

The Sikaplan adhered roof system is best for low sloped applications over nonnailable substrates such as precast or prestressed concrete, cementious wood fiber or gypsum. It is also effective over nailable substrates such as concrete, steel and wood decks. When used in combination with Sikaplan Single-Step Membrane Adhesive™, it can be more cost effective to install than an adhered TPO system.

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**ILLUSTRATION KEY**

1. Structural Deck
2. Vapor Retarder (If Required)
3. Insulation
4. Insulation Fastener
5. Gypsum Roof Board (If Required)
6. Sikaplan Fastened Membrane
7. Sikaplan Adhered Membrane

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**MECHANICALLY ATTACHED**

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**SPECIALTY SYSTEM**

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**SIKAPLAN PRODUCT SPECIFICATIONS**

<table>
<thead>
<tr>
<th>SYSTEM TYPE</th>
<th>Mechnically-attached and RhinoBond®</th>
<th>Adhered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>EnergySmart White, Tan and Light Gray</td>
<td>EnergySmart White</td>
</tr>
<tr>
<td>Thickness</td>
<td>Available in 45 and 60 mil for bareback and feltback membranes*</td>
<td>Available in 60 mil for bareback and feltback membranes*</td>
</tr>
<tr>
<td>Reflectivity</td>
<td>0.85**</td>
<td>0.83**</td>
</tr>
<tr>
<td>Emissivity</td>
<td>0.89**</td>
<td>0.89**</td>
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<tr>
<td>SRI</td>
<td>107**</td>
<td>104**</td>
</tr>
<tr>
<td>Roll Size 60 mil</td>
<td>5 ft. x 100 ft. and 10 ft. x 100 ft.***</td>
<td></td>
</tr>
<tr>
<td>Roll Size 45 mil</td>
<td>5 ft. x 150 ft. and 10 ft. x 150 ft.***</td>
<td></td>
</tr>
</tbody>
</table>

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

* Contact your local Sika roofing representative for up to date product offering
** Based on EnergySmart White
*** Feltback only available in 10 ft. wide

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**RHINOBOND® ROOF SYSTEM**

This innovative attachment system is used with Sikaplan® membranes to increase contractor productivity and enhance roof wind uplift resistance. It uses electromagnetic induction welding to eliminate fastener penetrations through the membrane. Specially coated membrane plates are fastened to the roof assembly and later fused to the underside of the membrane using the RhinoBond tool, which is lightweight, portable, and simple to use. The system achieves an FM I-90 rating in the field while requiring 30 percent fewer fasteners per square than traditional systems.

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**ADHERED**

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**SIKAPLAN® ADHERED SYSTEM**

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Along with protection from the elements, Sikaplan® systems also have sustainability features such as energy efficiency, recyclability and minimal maintenance. These features help building owners generate a positive Return On Investment while meeting their sustainability goals and protecting the earth’s natural resources.

According to U.S. Department of Energy estimates, replacing dark colored roofs with light colored, reflective roofs could result in energy savings of about $750 million per year in the United States.

The Sikaplan® system has a successful track record of more than thirty years protecting buildings throughout the world. So if you’re looking for the high performance of a PVC system at a competitive price, look to the trusted industry leader – Sika.

TO LEARN MORE ABOUT SIKAPLAN®, PLEASE CALL 800-576-2358, OR VISIT USA.SARNAFIL.SIKA.COM

1 Lawrence Berkeley National Laboratory, Potential Benefits of Cool Roofs on Commercial Buildings, March 2009
WHY CHOOSE TPO WHEN THERE’S SIKAPLAN?

**TPO IS:**

- **Unproven:** 20+ years later and TPO manufacturers still continue to modify their formulations to try and achieve the required level of performance.
- **Risky:** with TPO’s poor performance track record (especially in hot climates and high UV conditions) your reputation could be negatively impacted.
- **Guess Work:** lack of visual “bleed out” during seam welding and the need to wait 30 minutes to probe the seam makes quality control challenging.
- **Unreliable:** aged membrane surface can be difficult to re-weld and/or patch.
- **Problematic:** membrane expansion and contraction makes using slow-drying adhesives on bareback membranes very challenging.
- **Challenging:** need to seal all cut edges (including factory cut edges) and install t-joint patches on 60 mil or thicker (versus 72 mil or thicker with PVC).
- **Unattractive:** automatic welder “tracking” issues can cause sheet wrinkling.
- **Stiff:** makes sheet handling more difficult, especially in cold weather or with thick membranes.
- **Slow:** sheet needs to “relax” before adhering.

**SIKAPLAN IS:**

- **Proven:** over 30 years of performance history from Sika, the company with more PVC experience than anyone.
- **Cost-Effective:** a PVC membrane at a TPO Price.
- **Trustworthy:** manufactured by Sika, the creators of Sarnafil and the world leader in producing thermoplastic roof membranes.
- **Selective:** Sika Roofing sells direct to authorized and trained contractors to ensure a top quality roof system.
- **Less Risk:** distinct “bleed out” during seam welding and the ability to probe the seam immediately makes quality control easier.
- **Watertight:** no cut edge sealing needed and only requires t-joint patches on 72 mil membrane or thicker.
- **Dependable:** dimensionally stable with excellent adhesive bonding.
- **Easy:** no issues patching aged membrane.
- **Safe:** superior fire resistance for the safety of your customers.
- **Flexible:** makes detailing easy, even in cold weather.
- **Fast:** sheet does not need to “relax” before adhering.
- **Attractive:** no automatic welder “tracking” issues causing sheet wrinkling.
- **Sustainable:** Sikaplan membranes can be recycled at the end of their service life.

WHO WE ARE

The commercial roofing industry has relied on thermoplastic single-ply membranes from Sika for more than 50 years to achieve sustainable roofing and waterproofing solutions.

Sika is a globally active specialty chemicals company. Sika supplies the building and construction industry as well as manufacturing industries (automotive, bus, truck, rail, solar and wind power plants, facades). Sika is a leader in processing materials used in sealing, bonding, damping, reinforcing and protecting load-bearing structures. Sika’s product lines feature high-quality concrete admixtures, specialty mortars, sealants and adhesives, damping and reinforcing materials, structural strengthening systems, industrial flooring as well as roofing and waterproofing systems.

SOKAPLAN WARRANTY OPTIONS

A variety of warranty options are available, including 5, 10, 15, and 20 year durations for full system or membrane only.

SERVING YOUR NEEDS WORLDWIDE FROM ROOF TO FLOOR

Sika Corporation can assist you with your construction needs from roof to floor. Call 1-800-576-2398 to learn about our complete building system solutions.