



# **Sarnafil**

## **Adhered Single-Ply Roofing Systems**



**Sarnafil®**

**Adhered vinyl roofing systems from Sika Sarnafil provide building owners with an aesthetically pleasing roofing application that delivers superior, watertight protection—this protection is the result of time tested membranes, hot-air welded seams and a wide variety of system configurations to match the unique needs of individual building designs.**

Sika Sarnafil is a pioneer and the leading authority worldwide for adhered, single-ply roofing, thanks to quality adhesives, superior membrane performance and outstanding technical assistance.

The company's involvement with adhered roofing systems and the technology behind them goes back more than 45 years, and this expertise has led to innovative systems and products that fully address the needs of building construction.



***On the Cover:***

*Science Teaching & Student Services Building  
University of Minnesota*

*An adhered Sika Sarnafil roof system provided the University of Minnesota with watertight protection for their new-construction roof featuring multiple curves and angles.*



# Performance and Sustainability

## Energy Efficiency

Energy consumption is a prime contributor to the operational cost of commercial buildings—and to a building’s environmental “footprint.” An adhered EnergySmart Roof® from Sika Sarnafil minimizes absorption of solar heat from the sun, thereby reducing air conditioning needs and lowering energy costs. A reduction in energy consumption helps to combat the “urban heat island effect” prevalent in cities across the country and impacting the quality of air. The EnergySmart Roof exceeds the cool roof requirements of the EPA’s ENERGY STAR® roof program, California’s Building Energy Code (Title 24), LEED® and Green Globes®.

## Recycling

Sika Sarnafil established the first recycling program for single-ply roofing systems. The company’s 10-foot wide membrane contains an average of 10-percent recycled content. Sika Sarnafil is the only roofing manufacturer to have received verification of its recycling claims from Underwriters Laboratories.

## Fire Resistance

Fire resistance means a safer environment. Sarnafil vinyl membranes are naturally fire resistant and have UL Class A fire ratings over polyisocyanurate insulation at four times the slope of TPO membranes. (Visit our website at [usa.sarnafil.sika.com](http://usa.sarnafil.sika.com) to see fire test video comparing PVC, TPO, EPDM and SBS Modified Bitumen.)

**Behind every product and every system is our Sustainability Promise.**

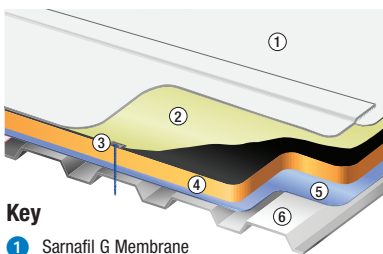
**[sustainabilitythatpays.com](http://sustainabilitythatpays.com)**

THE SIKA SARNAFIL  
**SUSTAINABILITY  
PROMISE**





## The Leading Resource for Adhered, Energy-Efficient Single-Ply Roofing Systems



### Key

- ① Sarnafil G Membrane
- ② Sarnacol Adhesive
- ③ Insulation Fastener
- ④ Insulation
- ⑤ Vapor Retarder
- ⑥ Structural Deck

### The Industry Standard

Sika Sarnafil is the undisputed leader in adhered thermoplastic roofing, having provided commercial buildings through the years with unparalleled protection from the elements. The company has produced more than 15 billion sq. ft. of high performance thermoplastic membrane—with many of the company's adhered roofing systems still performing after 25 to 30 years of service, in all types of climates.

### Performance Characteristics

Sarnafil® brand adhered systems attach securely over uniquely shaped roofs to combat mechanical stress from wind uplift. The systems eliminate sheet flutter and prevent “billowing.”

Sarnafil membranes with feltback minimize the “telegraphing” of substrates, resulting in a cleaner, more even appearance. In addition, adhered systems are suitable for “non-nailable” substrates like concrete.

Adhered roofing systems are also an excellent choice when all other roof system components are adhered. These systems eliminate the need for mechanical fasteners that can cause thermal bridging.





▲ Dallas/Fort Worth International Airport, Dallas, TX

### Leading the Way in Technology

Sika Sarnafil was the first single-ply company to develop a membrane specifically for adhered roofing applications. The Sarnafil G410 membrane has a non-woven fiberglass mat for superior dimensional stability and a low coefficient of thermal expansion and contraction—factors critical to the service life of an adhered roof. The G410 membrane has the best dimensional stability of any single-ply membrane, based on testing to ASTM D1204.

Sika Sarnafil's G410 relies on the same time-tested formulation utilized in all exposed Sarnafil-brand membranes—this formulation has led to a world-class reputation for reliability and performance for Sika Sarnafil roofing systems.

Complementary Sika Sarnafil products for adhered applications include both solvent and water-based adhesives—these adhesives are tailored to meet project specific needs, including compliance with regulatory requirements and green building rating systems. Adhered systems from Sika Sarnafil are available in a variety of configurations to match requirements relating to building designs and local conditions.

### Simplified Application

Ease of application is an important factor in the successful installation of any roofing system. The flexibility of Sika Sarnafil's vinyl membranes—together with the company's time-tested hot-air welded seaming technology and compatibility with a variety of adhesives—makes the company's adhered roofing systems very easy to work with.

### Aesthetics

Adhered roofing systems are known for their aesthetically appealing appearance. This is especially important for building designs in which the roof is visible from the ground. Sika Sarnafil's patented Décor Roof System uses vinyl profiles welded to the membrane surface to simulate the look of a standing-seam metal roof and is a popular option for steep slope installations. For this system, Sika Sarnafil produces membrane in seven standard colors and in an unlimited number of custom colors to meet design aspirations.

**Sarnafil®**



## Sika – Your Local Partner with a Global Presence

Sika is a globally active company in the specialty and construction product and chemicals businesses. It has subsidiary manufacturing, sales and technical support facilities in more than 70 countries around the world.

Sika is THE global market and technology leader in waterproofing, sealing, bonding, strengthening and protection of buildings and civil engineering structures.

Sika has more than 13,000 employees worldwide and is therefore ideally positioned to support the success of its customers.



### Sika Sarnafil

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### Sika Sarnafil Adhesives

Adhesive	Description/Application	Low VOC
<b>Sarnacol 2121</b>	A water-based dispersion adhesive used within a Sarnafil adhered system. It is formulated for adhering PVC membranes to clean, dry, water absorbent, horizontal roof surfaces with slopes up to 10° (2/12). See Technical Bulletins 03-09 and 04-09 for information on using Sarnacol 2121 on flashings or on higher slopes. For any other applications, contact Sika Sarnafil.	Yes
<b>Sarnacol 2170</b>	Solvent-based reactivating adhesive used with a Sarnafil adhered system and/or flashing details. It is also used to adhere flashings in Sarnafil waterproofing systems. It is formulated for adhering Sarnafil PVC membranes to properly prepared substrates such as wood, sheet steel, masonry, concrete, insulation and approved coverboards.	—
<b>Sarnacol 2170VC</b>	Solvent-based VOC-compliant adhesive used with a Sarnafil adhered roofing system and/or flashing details. It is also used to adhere flashings in Sarnafil waterproofing systems. It is formulated for adhering Sarnafil PVC membranes to properly prepared substrates such as wood, sheet steel, masonry, concrete, insulation and approved coverboards.	Yes*
<b>Sarnacol 2166</b>	One-part, VOC-free moisture curing urethane adhesive designed specifically for the installation of the Sarnafil membrane to a wide variety of insulations, recover boards or lightweight concrete.	Yes

\* The U.S. EPA considers the solvent in 2170VC as "exempt," and therefore the product can be used in all jurisdictions operating under EPA guidelines. At this time, the SCAQMD does not recognize it as exempt, and therefore the adhesive cannot be used in jurisdictions governed by their regulations directly (e.g., specific counties in CA). Not eligible for credits in LEED® or Green Globes® projects.

**Our most current General Sales Conditions shall apply.**

**Please consult the Product Data Sheet prior to any use and processing.**

**ISO 14001: 2004-Compliant**



ENERGY STAR® is a trademark of the U.S. EPA.  
LEED® is a trademark of the U.S. Green Building Council.  
Green Globes® is a trademark of the Green Building Initiative.

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