Sika Sarnafil—World Class Roofing and Waterproofing
Sika Sarnafil was created in 2005 by the merger of two world leaders in waterproofing. Sarnafil is now part of the public listed Sika Group in Switzerland, creating the largest high polymeric membrane supplier in the world. Sika Sarnafil has over 350 million square meters installed worldwide and is a recognized leader in protecting the roof from weathering effects and other problems associated with water ingress and moisture penetration. Today, these world class roofing systems are available in Asia.

Ecology
Modern plastics engineering is environmentally conscious. As a result, a majority of Sika Sarnafil products are recyclable. Eco-friendly production is also an integral part of Sika Sarnafil environmental management and a particular focus of company policy.

Innovation
The latest polymer blends form the basis for Sika Sarnafil numerous developments. And the resulting Sika Sarnafil waterproofing membranes are proven and tested thousands of times over, throughout the world. When combined with modern fastening technology, full adhesion or ballasting, they offer an extremely high standard of reliability. This level of reliability allows for a wide range of design options and tailor-made solutions.

Partnership
‘Understanding customer needs’ is not only a catch-phrase. A top-to-bottom, customer-focused culture at Sika Sarnafil is underscored by a strong commitment to meeting the customers’ local needs through our worldwide network of subsidiaries. Sika Sarnafil has production sites in Europe, North America and Asia, and distribution companies throughout the world.

Sika Sarnafil regards itself as a service company. It means that specialists will provide assistance on each project: from the planning phase through to project completion.

General Product Features:
- About 50 years’ application record under various climates.
- Aging-resistance property proven by projects and artificial weathering test.
- Minimum 20 years life expectancy for exposed applications and 50 years life expectancy for unexposed applications.
- Low temperature flexibility, no cracks at -30°C.
- Root resistant, especially required for roof gardens.
- High puncture resistance and high mechanical resistance.
- Low shrinkage rate.
- Homogeneous quality, no delamination, no capillary effects.
- Chemical resistance, resistant to alkali water from concrete.
- Good fire resistance.
- 2.00m wide, minimum material waste during installation.
- Seam integrated through hot air welding.
- Good moldability, easily adaptable to complicated flashings and corners.
- Easy maintenance with low cost.

Special Properties and Application:
S327 Membrane:
- UV resistant polyester scrim reinforced membrane with lacquer
- High tensile strength and excellent mechanical properties
- Suitable for mechanically fastened Exposed Roof System

G410 Membrane:
- UV resistant fiber glass reinforced membrane with lacquer
- Good dimension stability and high elongation at break
- Suitable for fully adhered Exposed Roof System

F610 Membrane:
- UV resistant two layer fused homogenous membrane
- Top layer with excellent long term properties and high elongation at break
- Suitable for fully adhered and mechanically fastened exposed roof system together with concealed systems (All types)

G476 Membrane:
- Non UV resistant fiber glass reinforced membrane with signal layer
- Root resistant and good elongation at break
- Suitable for loosely laid Protected Roof System, particularly roof gardens

S/G membrane achieves superior long term performance compared with homogenous membrane.
Technical Datasheet

PVC waterproofing membrane produced by Sika Sarnafil refers to international and domestic standards for various technical properties. Advanced product recipe, modern production equipment and strict production management result in excellent product properties.

Physical Properties of Selected Membranes

<table>
<thead>
<tr>
<th>Item</th>
<th>S327-15L</th>
<th>G410-15L</th>
<th>G476-15L</th>
<th>F610-15L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength (N/50mm)</td>
<td>1050</td>
<td>10</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>Elongation at Break (%)</td>
<td>12</td>
<td>180</td>
<td>180</td>
<td>250</td>
</tr>
<tr>
<td>Dimension Stability (%)</td>
<td>1.0</td>
<td>0.2</td>
<td>0.2</td>
<td>2.0</td>
</tr>
<tr>
<td>Low Temperature Flexibility (°C)</td>
<td>-20</td>
<td>-20</td>
<td>-20</td>
<td>-25</td>
</tr>
<tr>
<td>Water Tightness</td>
<td>meet req.</td>
<td>meet req.</td>
<td>meet req.</td>
<td>meet req.</td>
</tr>
<tr>
<td>Puncture Resistance</td>
<td>meet req.</td>
<td>meet req.</td>
<td>meet req.</td>
<td>meet req.</td>
</tr>
<tr>
<td>Heat Aging Treatment</td>
<td>meet req.</td>
<td>meet req.</td>
<td>meet req.</td>
<td>meet req.</td>
</tr>
<tr>
<td>Chemical Corrosion Resistance</td>
<td>meet req.</td>
<td>meet req.</td>
<td>meet req.</td>
<td>meet req.</td>
</tr>
<tr>
<td>Artificial Weathering</td>
<td>meet req.</td>
<td>meet req.</td>
<td>meet req.</td>
<td>—</td>
</tr>
</tbody>
</table>

Testing Standard: DIN (German Industrial Standard) unless otherwise indicated.

Application Fields

Sika Sarnafil PVC membrane is produced with special recipe. Its life expectancy of the whole waterproofing system is over 20 years for roofing, by far exceeding the normal PVC waterproofing systems. This outstanding advantage makes Sika Sarnafil products widely used in various waterproofing fields.

- Exposed Roof
- Roof Garden
- Utility Deck
- Pedestrian Roof
- Traffic Roof
- Light Weight Roof
- Roof Renovation

Life Expectancy

The life expectancy of a roof system is the single most important factor in the overall life cycle cost. Sika Sarnafil roofs have passed the ultimate test - the test of time. Sika Sarnafil has numerous projects over 30 years old that are still performing today. With exposed roof systems still watertight after 30+ years, Sika Sarnafil has developed an unrivalled reputation for performance unequalled in the roofing industry. More than 350 million square meters of Sika Sarnafil membrane protects some of the world's most valuable structures.

Sika Sarnafil has developed a world class reputation for performance unequalled in the roofing industry.

In the assessment of Sarnafil the BBA (British Board of Agrément) States:

All available evidence indicates that the Sika Sarnafil Roof Covering System should have a life in excess of 30 years.
Sika Sarnafil puts much emphasis on design and integrates it into a total package of waterproofing systems. To maintain a high design quality, Sika Sarnafil employs professional designers. Under the guidance of Swiss headquarters, Sika Sarnafil develops customized waterproofing system solutions for numerous roofing applications. The roof garden and light weight roofing system offer a complete new design option for the Asian construction market at European standard.

Sika Sarnafil Waterproofing Systems
- Offers tailor-made design of waterproofing system for each project.
- Provides system accessories with high quality.
- Is backed by 50 years’ experience.
- Selects proper and practical material type for different projects.
- Uses advanced installation tools to guarantee the reliability of various waterproofing systems.
- Offers scientific training and establishes work process for installation team to guarantee a first-class technical level.
- Offers site support to guarantee a complete implementation of waterproofing system.

To benefit from all advantages of Sika Sarnafil waterproofing systems, the use of Sika Sarnafil PVC membrane and system accessories is not enough. Installation should also meet Sika Sarnafil installation requirements as installed by a Sika Sarnafil certified applicator.

Installation features of Sika Sarnafil fully adhered system:
- Special Sika Sarnafil adhesive and low consumption rate.
- Tight adhesion fully reflecting the original shape of a building.
- Convenient and safe installation, automatic welding machine available.

Installation features of Sika Sarnafil mechanically fastened system:
- Little climate influence, quick and reliable installation.
- Bearing high strength wind load to guarantee the security of the system.
- High quality fasteners applicable to different substrates.
- Automatic welding machine available.
- Low installation and system cost.

Installation features of Sika Sarnafil loosely laid system:
- Cost effective.
- Little climate influence, quick and reliable installation.
- Proper felt protection measures.
- Widely used in protection system such as roof garden, utility deck and basements.
1. Esplanade Theatres on the Bay, Singapore
2. Police Coast Guard Headquarters, Singapore
3. Fusionopolis, Singapore
4. Lagoon View Condominium, Singapore
5. JTC Factory at Changi North, Singapore
6. Millennia Institute, Singapore
7. Sentosa Cove, Singapore
8. Mount Elizabeth Hospital, Singapore
9. Changi Terminal 3 (Planter, Gutten), Singapore
10. Jurong Bird Park, Singapore
11. Putrajaya Convention Centre, Malaysia
13. Sarawak International Medical Centre, Malaysia
14. Airata Hockey Stadium, Malaysia
15. Mercedes Showroom, Malaysia
16. Suvarnabhumi Airport, Bangkok, Thailand
17. Swiss Embassy, Bangkok, Thailand
18. Egato Power Plant, Bangkok, Thailand
19. Slam Royal View, Bangkok, Thailand
20. Permai Currency Printing Plant, Indonesia
21. Philips Factory, Indonesia
22. Sumitomo Plastics, Indonesia
23. Sarbio Electronics, Indonesia
24. Nestle, Philippines
25. Bacolod Airport, Philippines
26. Vietnam Convention Centre, Vietnam
27. French Embassy, Vietnam
28. Mitro Museum, Japan
29. Hitachi Computer Company, Japan
30. Proctor & Gamble, Chandigarh, India
31. Everline Jewell - Mumbai, India
32. Everline Mall - Mumbai, India
33. Reliance RCP Project - Mumbai, India
34. Tejomaya IT Park - Cochin, India
35. NDTV - New Delhi, India

**Reference Projects in Asia**

- Esplanade Theatres on the Bay, Singapore
- Police Coast Guard Headquarters, Singapore
- Fusionopolis, Singapore
- Lagoon View Condominium, Singapore
- JTC Factory at Changi North, Singapore
- Millennia Institute, Singapore
- Sentosa Cove, Singapore
- Mount Elizabeth Hospital, Singapore
- Changi Terminal 3 (Planter, Gutten), Singapore
- Jurong Bird Park, Singapore
- Putrajaya Convention Centre, Malaysia
- Masjid Sul. Nasaruddin Shah Mosque, Malaysia
- Sarawak International Medical Centre, Malaysia
- Airata Hockey Stadium, Malaysia
- Mercedes Showroom, Malaysia
- Suvarnabhumi Airport, Bangkok, Thailand
- Swiss Embassy, Bangkok, Thailand
- Egato Power Plant, Bangkok, Thailand
- Slam Royal View, Bangkok, Thailand
- Permai Currency Printing Plant, Indonesia
- Philips Factory, Indonesia
- Sumitomo Plastics, Indonesia
- Sarbio Electronics, Indonesia
- Nestle, Philippines
- Bacolod Airport, Philippines
- Vietnam Convention Centre, Vietnam
- French Embassy, Vietnam
- Mitro Museum, Japan
- Hitachi Computer Company, Japan
- Proctor & Gamble, Chandigarh, India
- Everline Jewell - Mumbai, India
- Everline Mall - Mumbai, India
- Reliance RCP Project - Mumbai, India
- Tejomaya IT Park - Cochin, India
- NDTV - New Delhi, India
International Reference Projects

Europe:
1. Palexpo, Geneva, Switzerland
2. Siemens AG, Germany
3. Heathrow Airport, London, Great Britain
4. American Air Museum, Duxford, Great Britain
5. Fischer Park, Wiener Neustadt, Austria
6. Subway station Via Cilea, Milano
7. Alcatel, Autun, France
8. Sports Activity Center, Kopenhagen, Netherlands
9. Volvo Bulycke, Sweden
10. Royal Hospital, Bergen, Norway
11. AEGHohtendamoor, Brussels, Belgium
12. Shell, Rotterdam, Netherlands
13. Compaq Computer, Spain
14. Unihov, Lisbon, Portugal
15. Olympics Sports Hall, Athens, Greece
16. R. Bosch, hala 080a/090, Ceske Budejvice
17. Flughafen Ferihegy, Budapest
18. Solco Pharmaceuticals, Warsaw, Poland
19. National Economics Academy, Moscow, Russia

America:
1. Coca Cola Bottling, USA
2. Chase Manhattan Bank, New York, USA
3. Harvard University, USA
4. Boeing Corp, USA
5. World Trade Center, Boston, USA
6. United Airlines, USA
7. Motorola Company, USA
8. Hewlett Packard, USA

Africa:
1. Mitsubishi Power Plant, Cairo, Egypt
2. Underground Garage GR2, Tripoli, Libya

Middle East:
1. Accumulator Battery Plant, Iran
2. Al Khirin Coastal Development, Kuwait
3. P.O.C., Industrial Building, Tel Aviv, Israel
4. Royal Commission Housing, Jubail, Saudi Arabia
Sika – global knowledge with a local presence

Sika Branch Offices: Ahmedabad, Bangalore, Chandigarh, Chennai, Cuttack, Hyderabad, Kolkata, Mumbai, Noida, Pune & Siliguri

Sika India Pvt. Ltd.
601, ‘A’ Wing, Infinity Tower
Mindspace
Off Link Road, Malad (W)
Mumbai – 400 064
Tel: +91 22 4038 4038
Fax: +91 22 4038 4039
E-mail – info.india@in.sika.com
Website: ind.sika.com

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

An ISO 9001:2008 Company