



SIKA SARNAFIL HD

Sarnafil® HD



SARNAFIL HD SYSTEM

WHAT IS IT? The Sarnafil HD System, comprising Sarnafil HD Membrane, Sarnatherm HD Thermal Insulation and Sarnavap HD SA Air and Vapour Control Layer is without doubt the most durable single ply roof system Sika Sarnafil has ever offered.

Sarnafil HD Membrane (Waterproofing)

The most robust and thickest of all our PVC membranes, this 2mm multi-layer, synthetic roof waterproofing sheet offers superior puncture resistance when compared to thinner products. Having undergone rigorous testing at the Sika R&D facility, the 2mm membrane out performs thinner membranes in puncture testing every time. While ideal for withstanding tough construction site conditions, such as heavy foot traffic, it still provides the numerous benefits found within a typical Sarnafil Single Ply roof membrane.

Sarnafil HD (Thermal Insulation)

The Sarnafil HD system is made even tougher by installing this high-density PIR insulation board underneath the Sarnafil HD membrane. Further mitigating the potential for damage, it can withstand impact and boasts an excellent compressive strength.



Sarnafil HD SA (AVCL)

At 2mm thick, this self-adhesive air and vapour control layer is made of polymer-modified bitumen and is highly durable, making it ideal for temporary waterproofing (generally up to 4 weeks). The factory applied self-adhesive backing makes it easy and quick to install, while its aluminium inlay makes it ideal for use in high humidity areas where a vapour barrier is required.

Sarnafil® HD



KEY BENEFITS

BENEFITS UNIQUE TO SARNAFIL HD SYSTEM:

- Increased thickness, protection and longevity
- Superior puncture resistance
- Improved Resistance to regular foot traffic

ADDITIONAL SARNAFIL HD SYSTEM BENEFITS, SHARED WITH OTHER SARNAFIL SINGLE PLY ROOF WATERPROOFING SYSTEMS:

Longevity/robustness:

- BBA life expectancy in Excess of 40 years
- Resistance to permanent UV irradiation
- High dimensional stability
- High resistance to impact load
- Resistance to all common environmental influences
- High water vapour permeability
- Unique lacquered top coating, providing resistance to industrial/biological waste and air pollution

Quality:

- Manufactured in Switzerland, a country renowned for quality, in accordance with ISO 9001 and CE marked to BS EN 13956:2005

Ease of Use:

- Fast installation
- Lightweight compared to other traditional flat roofing systems

Safety:

- Treated with a fire retardant to produce a self-extinguishing surface
- Installation without naked flames, removing fire-related health and safety concerns

Sustainability:

- Recyclable
- BRE-accredited thermal details, reducing carbon emissions and whole life cost

Aesthetics:

- Impressive architectural impact
- Highly flexible
- Multiple colour options

Site Support:

- Training
- Applications



WHY HAVE WE BROUGHT SARNAFIL HD TO MARKET?

As a leading manufacturer in our field, we’re constantly striving to improve our offering and address the various issues within the roofing sector. Two problem areas we’ve identified in the market are incorrect specification and poor on-site practices, both of which are affecting the perception of single ply membranes.

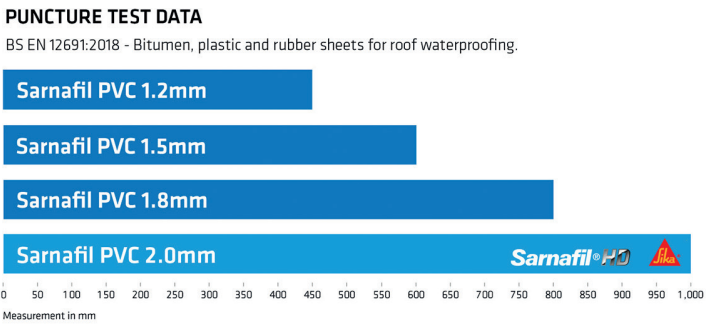
Budget constraints placed on construction projects are leading to the specification of cheaper, thinner single ply membranes, while space and time constraints have led to problems around workmanship.

Specifying a cheaper membrane may initially seem like a great cost-saving solution. However, low quality membranes and systems (which may not be part of a single point guarantee system, and/or may not be installed by fitters with the correct training or technical support), coupled with increasingly smaller project time-frames, and often cramped physical space on site, create huge problems.

Whether it’s various trades working on top of each other, screws or tools left lying around or protective coverings not being used when working on the roof, the possibility of damaging the membrane is increased. These problems can be expensive to rectify, lead to delays in project completion and in turn contribute to the negative perceptions around single ply roof systems. However, if the right membrane and system are chosen from the outset, the risk of potential damage and roof failure can be limited.

Although education in the industry is key, product design and innovation also play their part. In response, we have developed the Sarnafil HD system. Released to promote the use of thicker and more robust membranes and is perfect for the rigours of modern construction projects.

WHAT IS IT SUITABLE FOR? Used as a roof waterproofing membrane for exposed and buried flat roofs applications, Sarnafil HD is particularly suited to tough conditions and on projects where it’s not possible to reduce foot traffic. Specifying this 2mm-thick single ply membrane means the client and contractor get a robust solution and are not faced with potentially time consuming and costly repairs.



CASE STUDY

ELGIN PRIMARY SCHOOL



SARNAFIL HD SPECIFIED TO SAVE SCHOOL WITH DURABLE ROOFING SOLUTION. As part of Moray Council's Essential Repairs and Upgrade Programme 2018/19 for schools, a high-quality flat roof refurbishment was required at New Elgin Primary School in Moray, Scotland.

With previous roof re-coverings proving problematic, two key requirements were highlighted from the outset. These included upgrading the building's thermal performance, in order to improve comfort for occupants and help save energy, and improving robustness, in order to mitigate damage caused by vandalism attacks experienced at the school..

SOLUTION
The large task included a complete upgrade of all flat roof areas and rooflights, plus essential repairs to pitched roof sections. With Moray Council having used Sika Sarnafil for numerous other school and council properties with great success, Sarnafil was specified as the right system for the 2500m² area, which was procured under a competitive tendering process.

The architect worked closely with Sarnafil throughout the project to ensure the chosen roofing products provided the required detail, specification and performance. A Sarnafil HD bonded system was recommended to guarantee a high quality and durable roof. By combining the thickest single ply membrane available – 2mm – and the most robust insulation board – SarnaTherm HD – the Sarnafil HD system offered a long-term, resilient and well-insulated roofing system with very low thermal conductivity.

With the strong and hard-wearing Sarnafil HD more suited to tougher conditions, the refurbishment meant the roof would be equipped to resist further damage from foot traffic, heavy loads and attempted vandalism. It would also provide a longer lasting solution for the school, with the 2mm membrane outperforming all other membranes according to puncture test data.

Roofing contractor A&B Buchan was tasked with the installation through principle contractor Morrison Construction. As a Sika Sarnafil Registered Contractor that's used Sarnafil products for the majority of their projects over the last 30 years, A&B Buchan was well-equipped for the job. Despite the tougher and thicker HD membrane specified, the system was installed easily and seamlessly by their expertly trained team.



The main challenge of the refurbishment was installing the roof during term time in an operational school. Under Construction Design and Management Regulations (CDM), all required health and safety measures were executed by Morrison Construction. These included implementing perimeter safety barriers, using suitable scaffolding and isolating work areas as required in conjunction with the school, ensuring the safety of those working onsite as well as staff, pupils and visitors.

The work also saw several SarnaLite rooflights installed and SikaLastic liquid polyurethane used for problematic detailing on the roof.

Regular site visits were carried out by Sika Sarnafil to ensure the quality of the installation and excellent communication channels were maintained between Morrison Construction and A&B Buchan, ensuring the project ran smoothly, finished on time and was completed to the client's satisfaction.

With the use of high-quality Sika Sarnafil products, the end result was a robust refurbishment with a 20-year Sarnafil Plus Extended Product and Installation Guarantee that will protect the roof for years to come and give the school complete peace of mind.

Client:	Moray Council Education Department
Main contractor:	Morrison Construction
Roofing contractor:	A&B Buchan
Project name:	New Elgin Primary School
Location:	Elgin
Area:	2500m²
Architect:	Moray Council Environmental and Property Services



SIKA FULL RANGE SOLUTIONS FOR CONSTRUCTION:



LIQUID APPLIED ROOFING



SINGLE PLY ROOFING



BITUMINOUS ROOFING



CONCRETE



CONCRETE REPAIR



STRUCTURAL STRENGTHENING



WATERPROOFING



JOINT SEALING



FAÇADE STRUCTURAL ADHESIVES



FLOORING



INDUSTRY



DISTRIBUTION

WHO WE ARE

Sika Limited and Sika Ireland Limited are part of the global Sika Group, specialising in the manufacture and supply of chemical based products. Sika have a leading position in the development and production of systems and products for bonding, sealing, damping, reinforcing, and protecting in the building sector and the motor vehicle industry. Sika has subsidiaries in 101 countries around the world and manufactures in over 200 factories. With more than 20,000 employees Sika generates annual sales of CHF 7.09 billion (£5.45bn). We are also committed to providing quality, service, safety and environmental care.

In the UK and Ireland, we provide market-leading solutions for concrete, waterproofing, roofing, flooring, refurbishment, sealing & bonding, and industry, and have manufacturing sites in Welwyn Garden City, Preston, Leeds and Dublin with more than 870 employees and a turnover of more than £260 million.

The information, and, in particular, the recommendations relating to the application and end use of Sika® products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. Please refer to our homepage www.sika.co.uk for our current standard terms & conditions applicable to all orders. Users should always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request.



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SPRA

The Single Ply Roofing Association (SPRA) represents membrane manufacturers, associated component manufacturers and specialist sub contractors and aims, through a quality assured partnership, to ensure the delivery of best value single ply roofing systems. By specifying products and specialist installation by SPRA Manufacturer, Associate and Contractor members you can be assured that all parties meet strict quality criteria. Compliance with these criteria and with the Code of Conduct is assessed at application, by annual audit and by random spot checks.

For further information, and to obtain copies of the SPRA Design Guide and other documents, go to www.spra.co.uk or call 0845 154 718.



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