



ROOFING

SIKA ENERGY SAVING CONCEPT  
MORE VALUE LESS IMPACT

BUILDING TRUST



# SIKA'S CONTRIBUTION TO REDUCE YOUR ENERGY CONSUMPTION

More Value – Less Impact

## Providing high-performance solutions – to the benefit of our customers and a sustainable development

Megatrends such as urbanization and an increasing world population boost the demand for infrastructure. Sika is committed to pioneering sustainable solutions to address global challenges – and to achieve this safely and with the lowest impact on resources. Sika's integrated roofing concepts and solutions address the entire life cycle of a built structure and include a roofing portfolio that is supplemented by services, tools and reference projects to quantify the sustainability performance. With buildings having extensive direct and indirect impacts on

the environment, energy efficiency is an essential aspect in the construction market. With its solution-oriented Energy Saving Concept, Sika strives to create value for its customers via customized sustainable and energy efficient roofs. With Sika Roofing solutions, significant energy and cost savings during a building's use phase can be achieved through improved thermal insulation characteristics and/or reflectivity of roofing membranes.

Quantifiable data on energy cost savings of roofing solutions, on the basis of specific projects, provide evidence on the promised value.

## KEY PARTNERSHIPS AND INITIATIVES SUPPORTED BY SIKA (AMONG OTHERS)

Sika Energy Saving Solutions support LEED Green Building certification by providing very high initial and high three-year Solar Reflectance Index (SRI) values according to CRRG (Cool Roof Rating Council) and ECRC (European Cool Roof Council) standard procedures. Sika is a member of these non-profit educational organizations whose initiatives are driven to bring value by promoting the benefits of cool roofing products and energy-efficient green buildings to regulators, policy makers, consumers and other stakeholders.



## ENERGY SAVING SOLUTIONS

### DESIGN OF A CUSTOMIZED SIKA ROOFING SOLUTION



#### More Value

Sika provides a wide range of Roofing systems specially designed and manufactured to reduce the operational energy costs of buildings.

- Broad portfolio of highly reflective thermoplastic Sarnafil® and liquid-applied Sikalastic® / Sika CoolRoof membranes with a high initial and three-year aged Solar Reflectance Index (SRI) and low soiling
- Sarnafil® and Sikaplan® thermoplastic roofing systems have a proven life expectancy of 50 years
- Sika CoolRoof i-Cure / MTC / PUD / CET technology based liquid-applied membranes are outstanding refurbishment solutions for extending the lifetime of existing roofs
- Sikatherm® PIR thermal insulation materials are among the technically best suited and most cost-efficient solutions for all types of flat roof build-ups and have the best thermal performance for a given thickness of insulation

## ENERGY SAVING CALCULATIONS

### PERFORMANCE PROVED BY SPECIFIC CALCULATIONS



#### More Value

Sika knows about the benefits of highly-reflective membranes and thermal resistance of insulation materials, and provides evidence.

- Comparative calculation of operational energy cost reduction of buildings with an optimized flat roof versus reference roofs (darker surface or less insulated)
- Quantification of the positive influence of high performance Sika Energy Saving Solutions on energy consumption and costs
- Calculation of the break-even point of the investment in the roof build-up by optimizing the system components
  - Roofing membranes with different reflectivity (SRI)
  - Thermal insulation with different characteristics (U-value)
- The Sika Energy Saving Calculator was developed by the Zurich University of Applied Sciences & Arts (ZHAW) in accordance with established norms

## ENERGY SAVING PROJECTS

### SUCCESSFULLY PUT INTO PRACTICE



#### More Value

Sika Energy Saving Solutions have been installed on all continents and in all climate zones.

- Spain: Neinver decided to install the highly reflective Sarnafil® TS 77 RAL 9016 SR / Sikatherm® PIR roofing system on its new shopping center in Barcelona
- Italy: Refurbishment of a shopping center in Campania with Sarnafil® TS 77 RAL 9016 SR / 30 mm layer of PIR thermal insulation
- USA: For the extensive repair on the existing roof of St. John's Regional Medical Center in Oxnard, Sarnafil® G 410 feltback EnergySmart was selected
- Argentina: The corporate headquarter of the Banco de La Ciudad de Buenos Aires was coated with Sikalastic®-560 white
- Mauritius: The Constance Belle Mare Hotel decided to refurbish its roof with the Sika CoolRoof PUD system with a payback period of approx. 3 years
- Taiwan: It was decided to do Re-Roofing of Taipei School with Sarnafil® S 327L white and Sarnafil® G 410L white

## YOUR ENERGY SAVING CONCEPT

### INSTALLATION OF THE RIGHT SOLUTION ON YOUR ROOF



#### More Value

Please contact your local Sika organization for more information about the Energy Saving Concept for your project.

- Design your roof from a wide range of highly reflective thermoplastic Sarnafil® and liquid-applied Sikalastic® / Sika CoolRoof membranes and Sikatherm® PIR thermal insulation materials
- Get a project-specific report, summarizing the energy saving potential of the selected Sika solution – and see how Sika can help to reduce your energy costs and support your sustainability targets
- Your local Sika organization would be more than happy to customize the concept to meet your needs

# ALSO AVAILABLE FROM SIKA



## FOR MORE ROOFING INFORMATION:



### WE ARE SIKA

Sika is a specialty chemicals company with 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's product lines feature concrete admixtures, mortars, sealants and adhesives, structural strengthening systems, flooring as well as roofing and waterproofing systems.

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



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