



# Fosroc Solutions for Cool Roofs

[www.fosroc.com](http://www.fosroc.com)



# ABOUT FOSROC INTERNATIONAL

Since the company's beginnings over 50 years ago, Fosroc has developed into an International leader in delivering Constructive Solutions for projects across a broad range of market segments including transport, utilities, industrial and general buildings.

Fosroc's commitment to customer service and technical support is second to none. We work closely with architects, structural engineers, contractors and owners to best understand their requirements. Together we can develop a bespoke solution for a construction project, adding value and becoming more than just a materials supplier, but a solution provider.

Fosroc has an extensive network of offices and manufacturing locations across Europe, the Middle East, India, North and South Asia, and is further represented in other regions across the world by distributor and licensee partners.

Selecting from the full portfolio of Fosroc products and services and integrating expert technical support, world class customer service and innovation, Fosroc goes beyond just product selling to ensure that we partner with our customers to deliver complete constructive solutions.

- |                       |                      |
|-----------------------|----------------------|
| > Admixtures          | > Grouts & Anchors   |
| > Adhesives           | > Joint Sealants     |
| > Protective Coatings | > Surface Treatments |
| > Concrete Repairs    | > Grinding Aids      |
| > Industrial Flooring | > Waterproofing      |

## FOSROC DELIVER SOLUTIONS NOT JUST PRODUCTS

### CAD Details

A library of standard CAD details are available, bespoke CAD details can be created for your specific project.

### Project Specifications

Dedicated specification managers on hand to assist with correct system choices and tailored solutions.

### Site Support

Expert product and application support made available from our specialist teams.

### Seminar & Training

Comprehensive programme of seminars and training courses designed to expand and reinforce your knowledge.

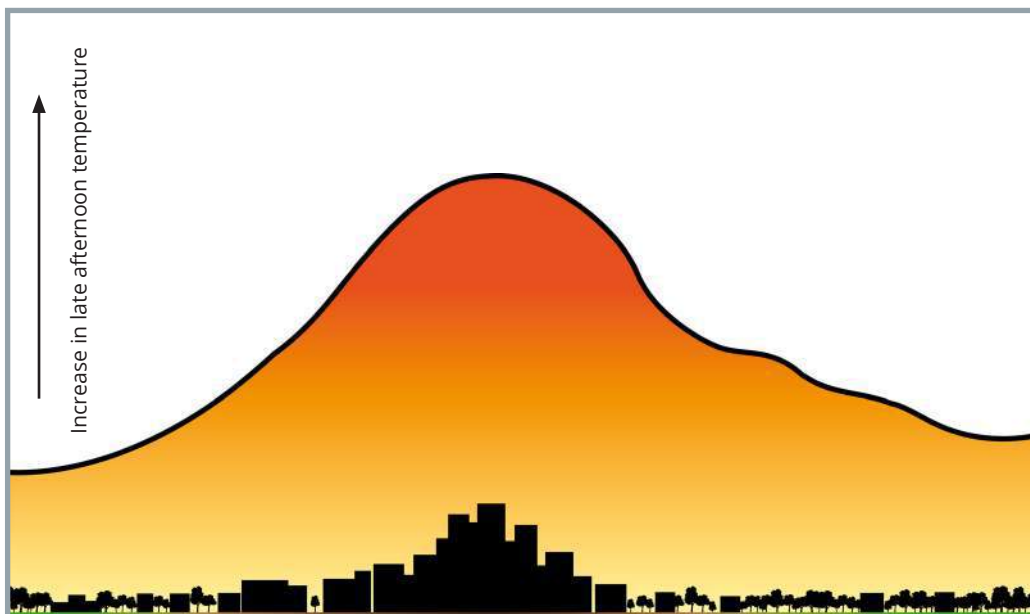
## OUR ACCREDITATIONS



# COOL ROOFS CAN HELP OUR PLANET

Solar reflective "cool" roofs save energy, money, and CO2 when applied to air conditioned buildings, they also improve comfort when applied to unconditioned buildings. They offset CO2 via global cooling, whether or not the building is conditioned. Cool roofs also reduce strain on the electrical grid by lowering late afternoon peak power demand. Widespread use of cool roofs can lower outdoor air temperatures, further reducing the need for cooling energy, as well as improving air quality and human health by slowing the formation of smog.

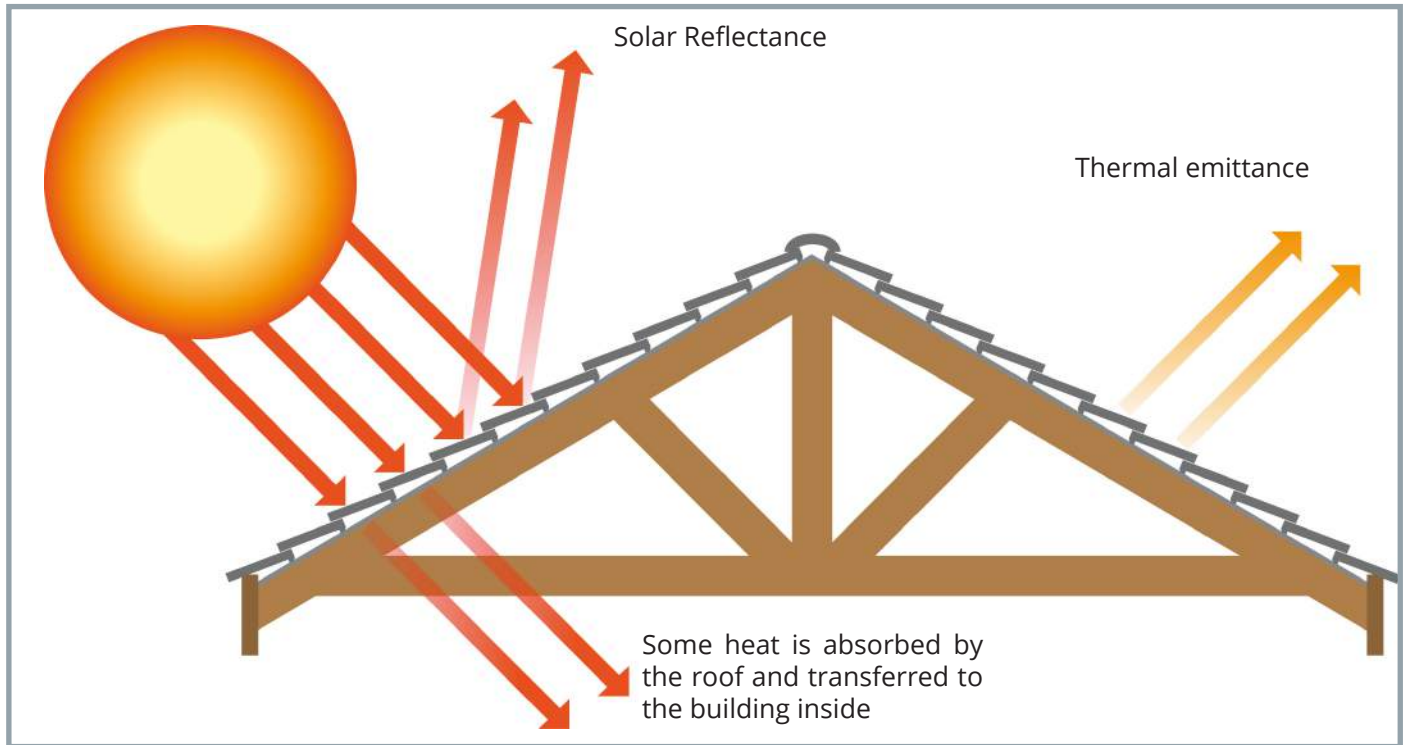
Unlike conventional roofs, cool roofs stay at or close to ambient temperatures even in hot days, reflecting away solar rays during day time and radiating the stored heat at night time.



Cool roofs also help mitigate the "urban heat island effect" which can occur when lots of buildings and paved surfaces of dark colours are absorbing heat from the sun. This has been shown in some areas to cause cities to become 2 to 8°F warmer than the surrounding countryside.

# BENEFITS OF COOL ROOFS

- Reduced energy costs
- Combats rising urban air temperature - reduces smog
- Increased comfort for non-air conditioned buildings
- Comply with codes and Green Building programs



## FOSROC SOLUTIONS

Both the LEED and Green Globes green building rating systems define a highly reflective roof as a roof with a minimum Solar Reflectance Index (SRI) of 0.78 for low-slope ( $\leq 2:12$ ) and 0.29 for steep-slope ( $> 2:12$ ) applications. In addition, both systems provide credits for the use of highly reflective roofing systems as part of their overall rating program. Excellent SRI values for Fosroc cool roof systems mean that these roofs will remain around ambient temperature, untreated roofs can increase by as much as 30oC. Studies have shown that cool roofs can reduce energy costs by as much as 20%.

**Fosroc Nitoproof UVR Topcoat** white achieves a certified SRI of up to 1.05 which far exceeds the recommended minimum, ensuring high potential energy savings, comfort, environmental

improvement and best-in-class performance from a worldwide leader in providing innovative constructive solutions. This topcoat can be roller applied on top of **Fosroc Polyurea WPE** fast-setting spray-applied waterproofing membrane, or **Fosroc Nitoproof 800** liquid-applied waterproofing membrane.

**Fosroc Proofex ORG** TPO membrane can be specified as white and solar reflective; it is a synthetic welded sheet membrane having an SRI value of 0.99 and Singapore Green Label Certified.

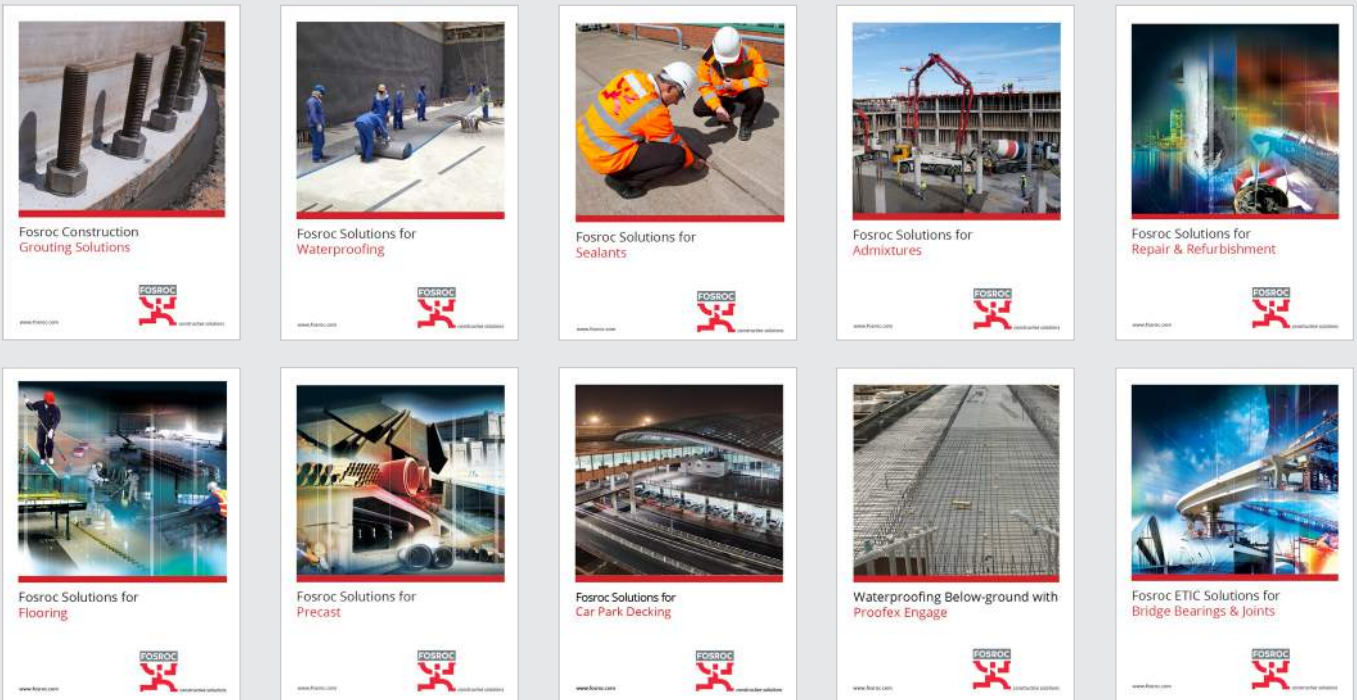
**Fosroc Brushbond TiFlexicote** is a cement-based polymer modified brush or roller applied coating providing excellent waterproofing qualities along with an SRI value of 1.00.

Fosroc product name	System type	SRI value
Polyurea WPE + Nitoproof UVR Topcoat White	Polyurea spray-applied waterproof membrane + roller applied Topcoat	1.05
Nitoproof 800 + Nitoproof UVR Topcoat White	PU liquid-applied waterproof membrane + roller applied Topcoat	0.97
Proofex ORG White	Reinforced TPO waterproof membrane	0.99
Brushbond TiFlexicote	Polymer modified brush or roller applied waterproof coating	1.00





Fosroc offers a full range of construction chemical solutions, helping to protect structures throughout the world. Please refer to our brochures, which include:



Details of your local Fosroc office can be found at  
[www.fosroc.com](http://www.fosroc.com)

#### Important Note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.