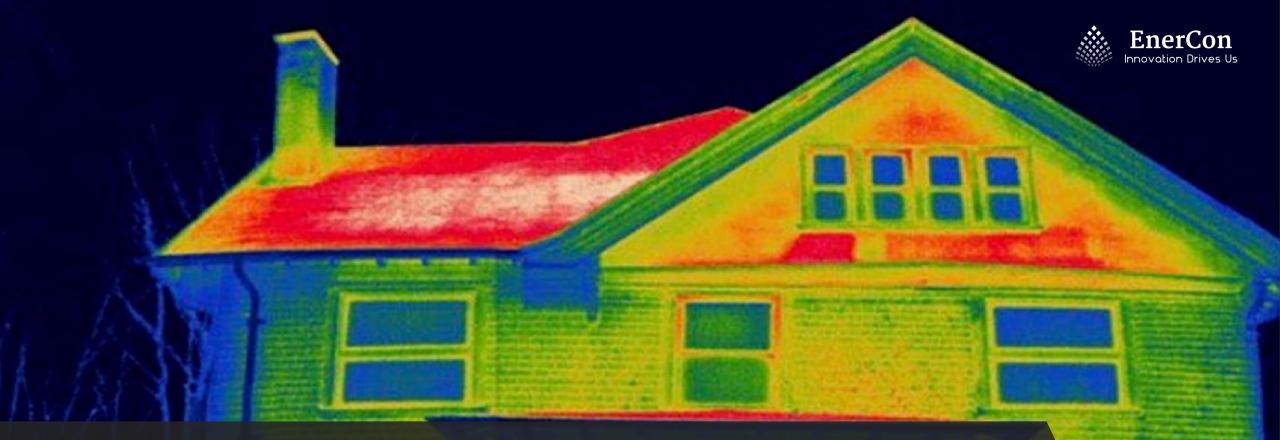


ENERCON LIQUID SILICONE COOL ROOF COATINGS



Biggest challenge construction industry is facing is the lack of high performing and cost-effective ROOFING SOLUTION, which can serve as <u>Cool Roofing</u> and <u>Waterproofing</u> both at the same time.

EnerFlex SP 300 – Cool Roof Coating

COOL ROOF RATING COUNCIL NOTIFICATION OF PRODUCT RATING

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1 de		Initial	Weathern
	Solar Reflectance	0.67	0.72*
CRRC	Thermal Emittence	0.90	0.90*
Long Street of	Rated Product ID	1446-000	(smooth)
RATED	Licensed Hanufacturer	5446	
PRODUCT	Cassification	Standard	Product

Card Real Number Council unlings are determined for a fixed set of smallfilles, and may not be manusciple for determining personal energy on thomas in. The school effect of actor of the basic and the read another or or Autility pedimente my may Mandatterer of product silpointes that there ratings never determined in accordance with the opplicable Cost King Kalong Council procedures.

The Cool Roof Rating Council (CRRC), an ISO 17065 accredited organization, has reviewed the test results data provided by a CRRC-approved SD 17025 testing laboratory and has determined this roofing product meets the requirements described in the ANS/CR8C S100 Standard and the CR8C-1 Program Manual. This Notification of Rating is subject to all terms and conditions of the Licensee Agreement and the documents incorporated therein by reference. This document must be reproduced in its entirety.

The Notification of Rating certificate for the approved initial ratings is valid until an updated certificate is issued by the CRRC that includes the approved three-year aged ratings. The certificate with the approved three-year aged ratings is valid until either the CRRC or Licensee removes the product from the CRRC Rated Products Directory.

"CRRC Rapid Ratings: These are interim laboratory-aged values that simulate weathered values. These values will be replaced with the measured three-war aged values upon completion of the weathering process. SRI values calculated using Rapid Ratings may change once the aged rating replaces the interim rating

HARRY WHITES Nets Games Pringers 01/29/2034 Application/Technical Review Application/Technical Reviewer Management According

Auditor

Certificate Date

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Rated Product ID #: 1446-0001 (smooth)				
		Sn	nooth	Rough	
CRRC			al / Aged	Initial / Aged	
COOL ROOF RATING COUNCIL	Solar Reflectance	0.87	/ 0.72*	Not Rated	
RAPID RATINGS	Thermal Emittance	0.90	/0.90*	Not Rated	

The ratings above are subject to CRRC rating program conditions, requirements and limitations. Visit coolroofs.org for important information and disclaimers about CRRC rating requirements and limitations. For the purposes of a CRRC rating, a rough substrate is defined as a surface that is equally coarse or coarser than a new (i.e., unweathered) #11 granulated modified bitumen sheet.

*CRRC Rapid Ratings: Interim laboratory-aged values that simulate naturally-aged values and will be replaced by the measured three-year naturally-aged values upon completion of the weathering process.



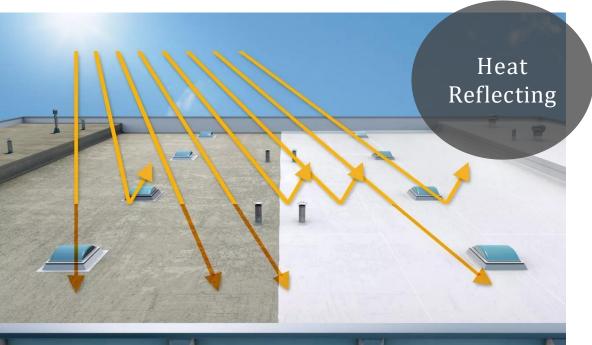






#### Advanced U.S. Technology which can perform all 3 functions of a roofing

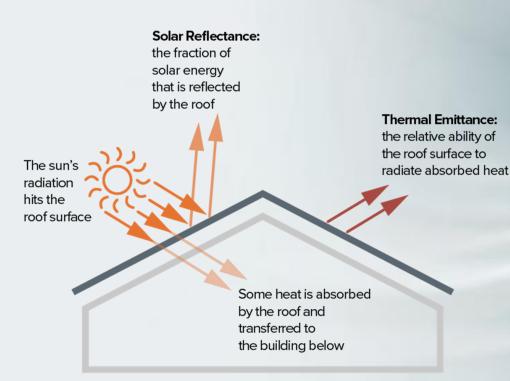
- 1. Cool Roofing by reflecting sunlight
- 2. Waterproofing even under ponding water situation
- 3. UV Resistance to extend the roofing life





## **4 Benefits Of Liquid Silicone**

**1. Cool Roofing** Liquid Silicone will reflect 90% of sunlight, thus isolating the roof substrate from external environment and creating a cool roof. It drops 25 °C roof external surface temperature



# 2. Reduced AC Bills

By reflecting 90% of sunlight, Liquid Silicone creates a cooler roof, which decreases inside room temperature, thus your AC costs go down by upto 15%.



## 4 Benefits Of Liquid Silicone

# 3. Advanced Waterproofing

Liquid Silicone is hydrophobic in nature, which repels water from the moment it is applied. Resistance to ponding water is an additional quality, which does not let water to seep in even if the water is standing on your roof.

# 4. UV Resistance

UV resistance is a key feature which determines the life of the roof. Liquid Silicone's excellent ability to reflect 90% of sunlight including UV rays, makes it last long.





## Liquid Silicone Cool Roofing -Case Study

- Reduces external roof temperature by 23 °C
- Reduces internal roof temperature by 8 °C
- Reduces AC Energy Cost by 13%



After **45 °C** 

**Before** 

68 °C

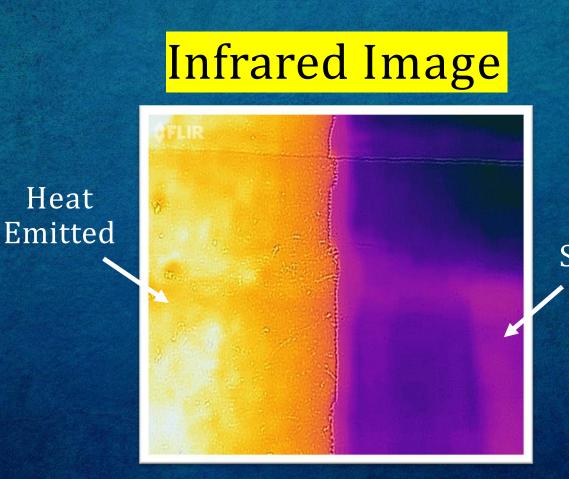
## Liquid Silicone Cool Roofing —Performance



# Normal Image



#### Bitumen | Silicone



#### Bitumen | Silicone

Cool Surface

## Inside Temperature Drop using Liquid Silicon Roofing





## Reduce Air Conditioning Energy Costs by 13%

After Coating (KWh)

2,978





EnerFlex SP 300 reflects 90% of incident sunlight thus making external roof surface cool and inside room cooler, which reduces Air Conditioning cost by upto 13%.

2,932

2,861

2,903

2,856

2,847

2,962

#### Water Proofing by Liquid Silicon Roofing



Prevents water leakages for 2 reasons:1. Silicone is hydrophobic in nature & repels water2. It forms a monolithic membrane - No Joints

Natural hydrophobic properties of liquid silicone makes it water repellant right from the beginning.

Once applied neither Silicone allows any water vapors to pass through the membrane nor it allows any standing water to seep through.



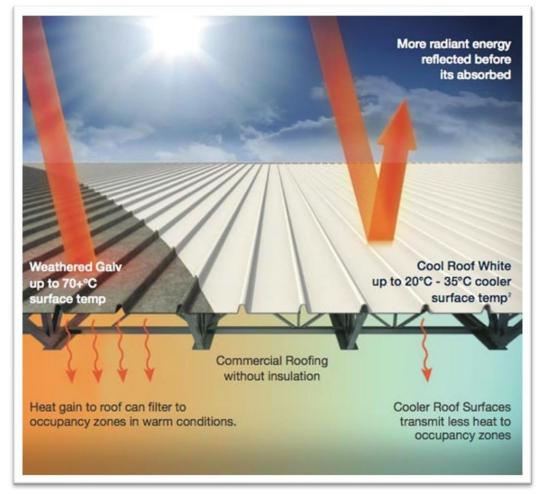
#### Enerflex SP 300



## Single Component Complete Roofing Solution

Liquid Silicone is a membrane, which bonds with the roof substrate by chemically reacting and forming a tight bond.

Once liquid silicone is applied, it protects the roof substrate by isolating it from external environment, be it sunlight, water exposure or UV rays.





STEP 3

## How to Apply?

#### STEP 1

#### STEP 2



Clean the Surface Apply Primer & EnerFlex SP 300 Cool Roof Coating Applied



## **Qualitative Analysis**

ENERFLEX-SP 300	RESULTS	
PHYSICAL FEATURES		
Tensile Strength	220 psi	
Elongation	250%	
Hardness Shore A	40	
COOL ROOFING		
SRI (Solar Reflective Index)	110	
Reflectivity & Emissivity	87 & 90	
WATERPROOFING		
Ponding Water Protection	Yes	
Water Vapor Permeability	10.2 g/m²/hr	



# CONTACT US

#### ENERCON SUPPLY PREMIUM & ADVANCED COOL ROOF COATINGS

#### NORTH AMEIRCA OFFICE

Tampa, 33624 FL, United States of America Mob: +1 786 726 0788 Email: info@enercon-group.com

#### MIDDLE EAST OFFICE

Office 402 Building 2 EMAAR Business Park Barsha Heights Dubai, UAE Mob: +971 50 168 4435 Email: info@enercon-group.com