

ENERCON LIQUID SILICONE COOL ROOF COATINGS






LIQUID SILICONE

Single Component Complete
Roofing Solution:

- Heat Reduction
- Waterproofing
- UV Resistance

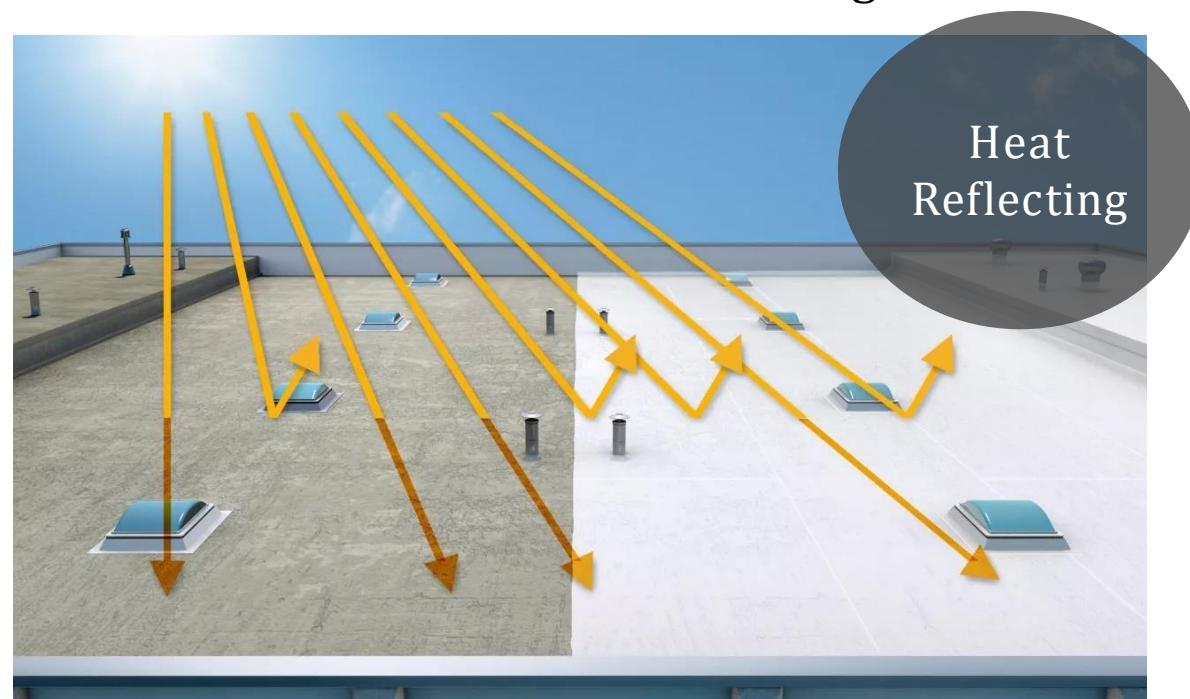




Biggest challenge construction industry is facing is the lack of high performing and cost-effective ROOFING SOLUTION, which can serve as Cool Roofing and Waterproofing both at the same time.

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

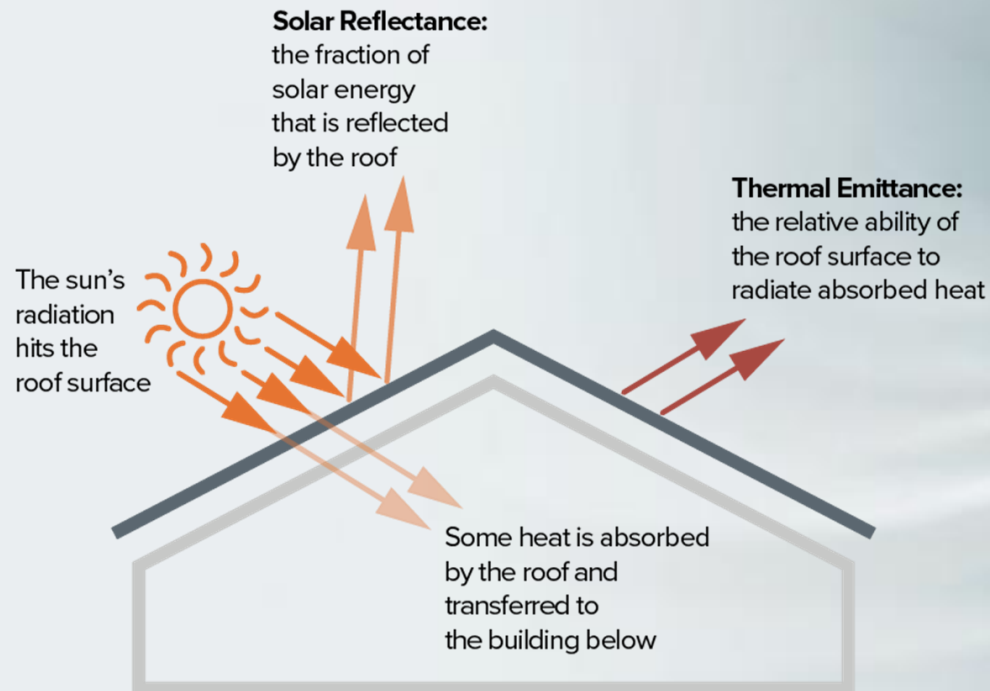
1. Cool Roofing by reflecting sunlight
2. Waterproofing even under ponding water situation
3. UV Resistance to extend the roofing life



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%

Before
68 °C



After
45 °C



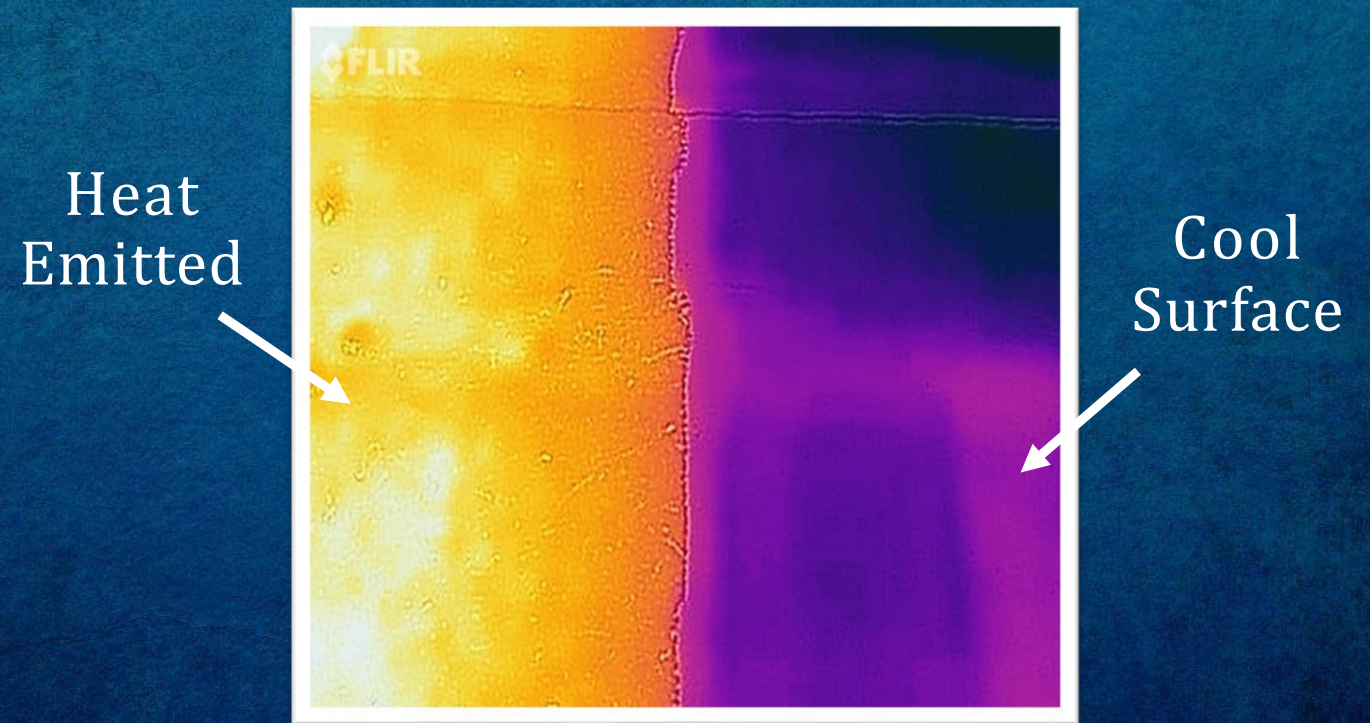
Liquid Silicone Cool Roofing —Performance

Normal Image



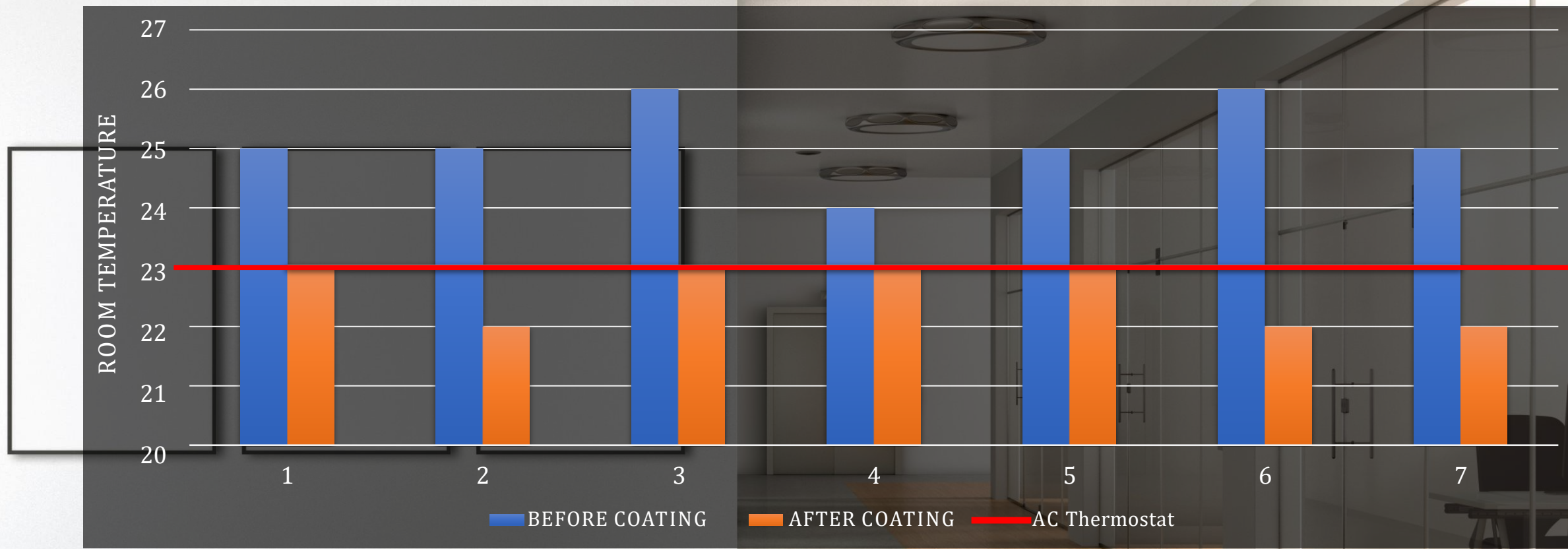
Bitumen | Silicone

Infrared Image



Bitumen | Silicone

Inside Temperature Drop using Liquid Silicon Roofing



Day	1	2	3	4	5	6	7
Before Coating (°C)	25	25	26	24	25	26	25
After Coating (°C)	23	22	23	23	23	22	22

Reduce Air Conditioning Energy Costs by 13%

KWh
consumption
before coating
23,072

KWh
consumption
after coating
20,339

Total one
week energy
savings
13%

Day	1	2	3	4	5	6	7
Before Coating (KWh)	3,334	3,390	3,317	3,316	3,254	3,273	3,188
After Coating (KWh)	2,978	2,962	2,932	2,861	2,903	2,856	2,847

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%.

Water Proofing by Liquid Silicon Roofing

Prevents water leakages for 2 reasons:

1. Silicone is hydrophobic in nature & repels water
2. It forms a monolithic membrane - No Joints

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

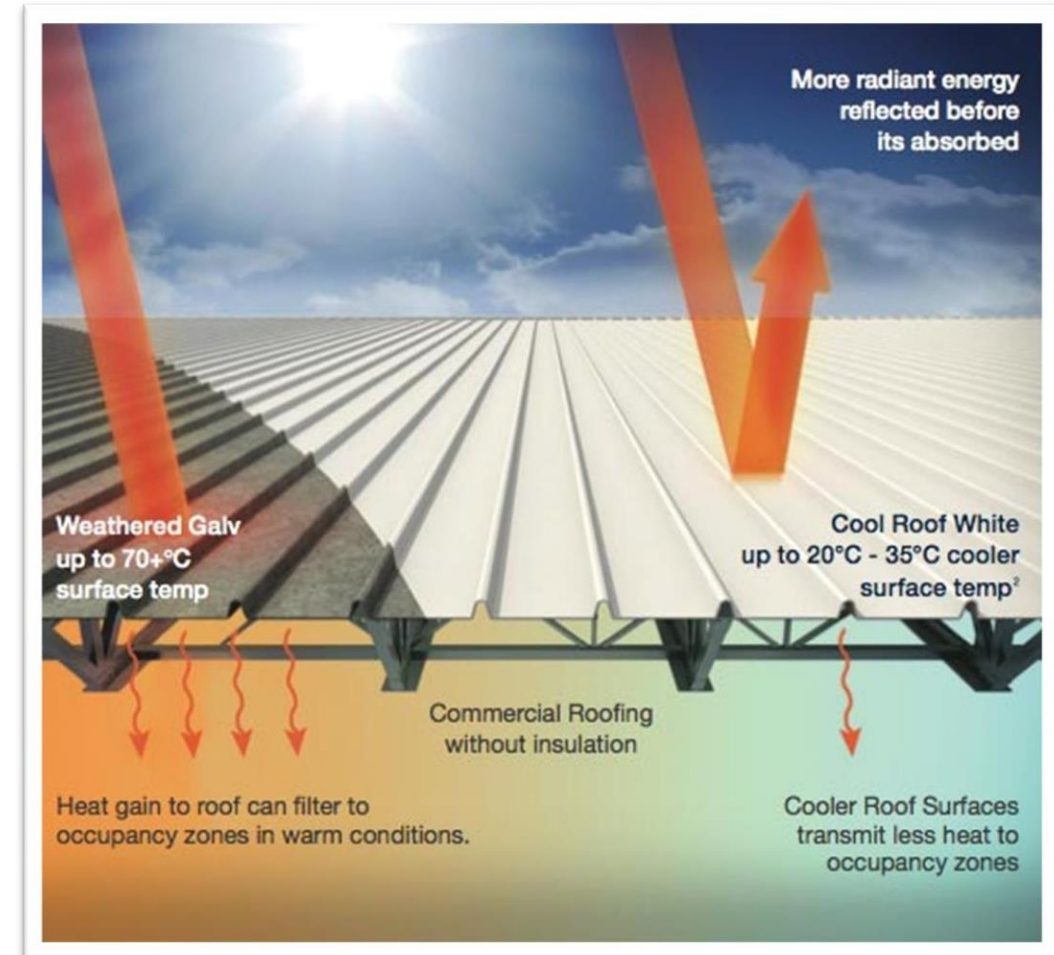
Once applied neither Silicone allows any water vapors to pass through the membrane nor it allows any standing water to seep through.



Single Component Complete Roofing Solution

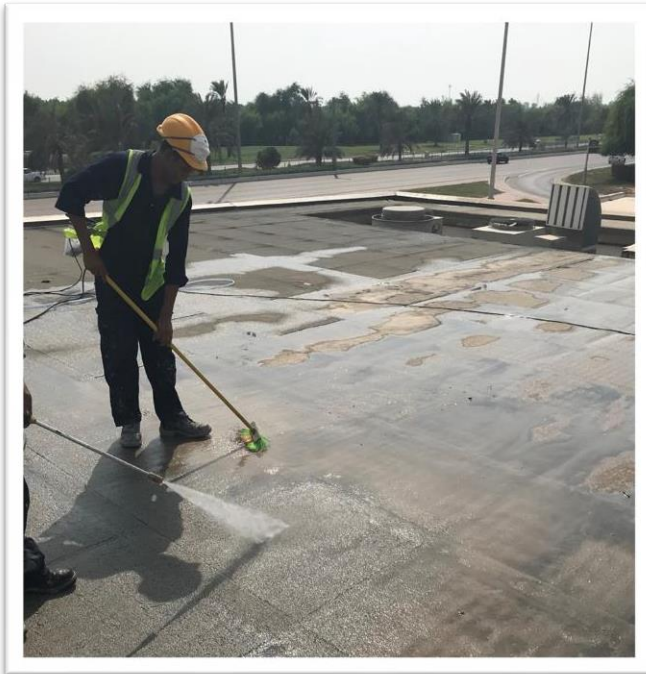
Liquid Silicone is a membrane, which bonds with the roof substrate by chemically reacting and forming a tight bond.

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



How to Apply?

STEP 1



Clean the Surface

STEP 2



Apply Primer & EnerFlex SP 300

STEP 3



Cool Roof Coating Applied

Qualitative Analysis

ENERFEX-SB 100

RESULTS

PHYSICAL FEATURES

Tensile Strength	320 psi
Elongation	350%
Hardness Shore A	55
Accelerated Weathering	4000 hrs

COOL ROOFING

SRI (Solar Reflective Index)	108
Reflectivity & Emissivity	86 & 89

WATERPROOFING

Ponding Water Protection	Yes
Water Vapor Permeability	0.5 g/m ² /hr

CONTACT US

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