



# **SUMMER SEAL<sup>®</sup>**

**SOLAR HEAT REFLECTIVE COATING**

Made with 73% of Organic Material  
Tested for 31 ASTM Standards



**Protecting  
Environment  
Starts From  
Saving  
Energy**

## Our Achievements



- ☀ High SRI Value 112
- ☀ Reflects 85% of UV and 90% of IR rays
- ☀ Cleans with Rain & Water
- ☀ Low VOC: Eco Friendly
- ☀ Reduces Energy Cost upto 40%
- ☀ Reduces Roof Heat Upto 20°C
- ☀ Low Cost Application & Maintenance
- ☀ Dust & Water Repellent



# "Beat the HEAT off" with **SUMMER SEAL**

**SUMMER SEAL** is a high SRI I 12, ready to use coating, Summer Seal when coated on the roofing materials, reflects sunlight to greater extent and prevents the roofing material from getting heated up, even during peak summer afternoons. Since it works on the principle of continuous rejection of UV and IR Rays, the roofing substrates itself does not get heated up. So the air bellow the roof never gets hot, keeping the room cool and comfortable. This protects the building for a longer period, extending the life of the buildings and prevents expansion contraction.

## PRODUCT DESCRIPTION

**SUMMER SEAL** water based high solids, flexible, 100% acrylic coating, high reflectivity combined with good weather ability, UV resistance, adhesion and ease of application makes Summer Seal an effective coating for providing long term reflectivity over a wide range of roofing substrates.

## BASIC USES

**SUMMER SEAL** was specially developed for extending the life of new or existing build-up, metal, concrete, and composite roofs by providing a white reflective top coat. The high reflectivity of Summer Seal keeps the roof substrate cool, which not only prolongs its longevity, but also saves on energy cost. Summer Seal's rich consistency uniformly covers the textured profile of various substrates forming a permanently flexible monolithic membrane, providing protection from normal weathering, ageing and UV exposure.

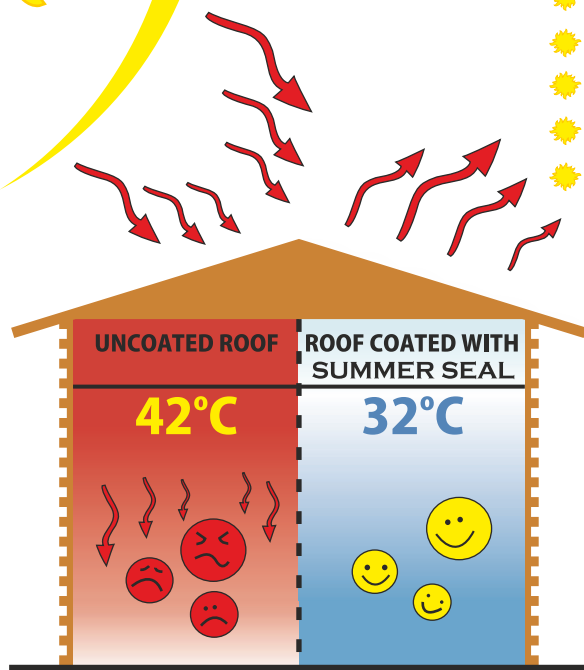
### Durability

Life of **SUMMER SEAL** will be 7+ years under standard and normal weather conditions.

- ☀ Building remains cool even during peak summer.
- ☀ Improved working environment, resulting in improved efficiency of labours.
- ☀ Reduction in humidification and air conditioning costs upto 40%.
- ☀ Reduction of roof heat about 8°C to 20°C.\*
- ☀ Blocks 90% of solar IR rays and 85% of UV rays.

## Areas of Application

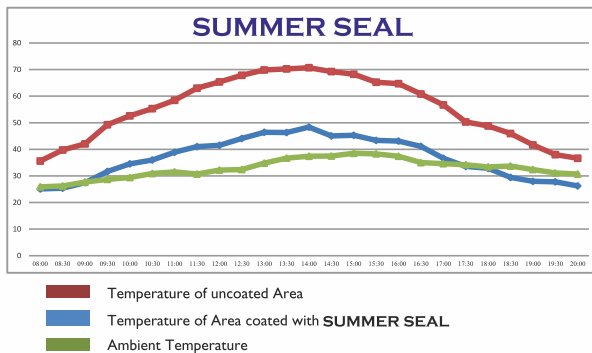
- ☀ Air Conditioned Buildings
- ☀ Office Buildings
- ☀ Green Buildings
- ☀ Shopping Malls
- ☀ Factories
- ☀ Houses
- ☀ Hospitals
- ☀ Railways & Metros
- ☀ Any type of old and new Sheet roofing and RCC roofs
- ☀ Outdoor Container cabins / pre-fabricated office
- ☀ Warehouses
- ☀ Oil Storage Tanks
- ☀ Terrace of Commercial Buildings
- ☀ Sintex tanks / water pipelines
- ☀ Residential Complexes
- ☀ Apartments
- ☀ Cold storage
- ☀ Cooling Towers & Pipelines



## PROPERTIES

- |   |  |
|---|--|
| <b>Ultraviolet Resistant</b>                  | - Continuous rejection of solar heat resulting in drastic reduction of roof heat.  |
| <b>Reduced Energy Costs</b>                   | - Remains white to reflect the sun's heat, drastically lowering roof substrate's temperature. Approximately 40% of the cost is saved in the area of humidification and air conditioning. |
| <b>Long-term Flexibility</b>                  | - acrylic membrane remains permanently flexible even upon extended exterior exposure.  |
| <b>Water-Based</b>                            | - Contains no solvents, cleans up with water. No toxic substance included.   |
| <b>Low Cost Application &amp; Maintenance</b> | - All these advantages at an affordable cost. Specially designed for user friendly application. No recurring maintenance cost. Roof gets cleaned automatically in rain.                  |
| <b>Stable Color</b>                           | - The acrylic resins cross-link under UV exposure to lock in color and lock out dirt.  |
| <b>High Film Build</b>                        | - High volume solids allows fast application to uniformly cover textured substrates.   |

- ☀️ **SUMMER SEAL** blocks 90% of solar IR Rays and 85% of UV rays keeping the roofing substrates cool even during summer.
- ☀️ Attractive power saving of upto 40% can be achieved during peak summers in air conditioning and humidification areas.
- ☀️ Drastic reduction of roof heat upto 20° C in peak summer.
- ☀️ Controls and checks leaks, resistant to water, fungus and mould.
- ☀️ Reduces global warming by reducing CO<sub>2</sub> emissions and green house gases.
- ☀️ Prevents island effect
- ☀️ Reflects IR & UV rays back to the atmosphere, preventing heat retention.
- ☀️ Helps in reducing green house effect.
- ☀️ Improves the working efficiency of the roof ventilators.
- ☀️ Extends the life of roofs, since a cooler roof would tend to undergo less expansion, and thus experiences less wear and tear under the sun.
- ☀️ Building looks brighter and new with all these advantages..
- ☀️ Ready to use single compound
- ☀️ Repelles heat & water, controls heat transfer.
- ☀️ Cleans up with rain or water.



**REDUCED ENERGY COST -** **SUMMER SEAL'S** top coat remains white to effectively reflect the sun's heat, unlike dark colored roofs that retain heat and are subject to UV degradation. Roof temperature can be reduced in excess of 20° C.

Comparative thermal performance of **SUMMER SEAL** on corrugated roofing materials.

### Thermal Test:

Ambient temperature	=	40°C
Uncoated Sheet roofing	=	70°C
Uncoated RCC roofing	=	65°C
Coated with <b>SUMMER SEAL</b>	=	45°C

This result proves the continuous rejection of solar heat, preventing the roof from getting hot. Maximum surface temperature will only be around 5°C more than the ambient temperature.



### **SUMMER SEAL CAN BE APPLIED WITH EASE IN FOLLOWING SURFACES.**

- ☀️ Any type of old and new Sheet roofing and RCC roofs.
- ☀️ Brick Coba
- ☀️ Tiles
- ☀️ Powder coated sheets etc.
- ☀️ Stones
- ☀️ Pipelines







## BENEFITS of COOL ROOF



Energy Saving



Building Cooling



City Cooling



Global Cooling



Low Maintenance



Compatible with other  
environmental roofing  
Strategies



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