

# SUNTRAP<sup>®</sup>

A Solar Heat Re- Radiating Compound

RE RADIATES  
93.7%  
OF SUNRAYS

## SUNTRAP

Create a comfortable indoor & improving energy efficiency in buildings.

A product of Nano Technology and Negative Carbon Footprint



No more sweating & Wetting in your home



Goodbye to Sleepless night



For a new Healthy generation



Exchange heat to cool & Enjoy winter in summer



Makes your Building energy efficient



Save power, Save nation

## Our Background

Polychem formulations Pvt. Ltd. started its activities in the field of anti-heat treatment and "Summer Management solutions" related to industries. We have a rich experience of over a decade in this area and our research and innovation is an ongoing process. We have been successful in addressing heat management, with our niche technology especially for the construction industry. Our product was christened SUNTRAP

## What is SUNTRAP

SUNTRAP is an innovative solar heat re-radiating metallic oxides compound.

## What is the purpose?

Improving the efficiency of HVAC (Heating, Ventilation & Air Conditioning) Systems and providing a comfortable environment).

It re-radiates 93.7% of sunrays, resisting solar heat penetration, and drastically reducing indoor temperature build up and helps to reduce electricity consumption and carbon footprint.

It also fills minute cracks in RCC structure and prevents minor leaks.

## Is SUNTRAP safe?

YES, Very much safe, The safety of SUNTRAP is well studied and documented by CUSAT(Cochin University of Science and Technology), it is absolutely safe on human beings and pets.

## How it Works?

It's simple. SUNTRAP coated surface is both highly reflective and highly emissive to minimize the heat generated from sunlight.

## Is it Paint?

No, it's a coating.

## Where can it be used?

SUNTRAP can be applied almost on all kind of surfaces including RCC terrace, terrace pressed with tiles, walls, GI and tin sheets, asbestos, fibre tank, PVC, pipe lines, etc...

## Where to apply?

Residential Villas & apartments, Commercial & Industrial buildings, Educational buildings, Hospitals, water storage tank, Irrigation canal, cattle & poultry farm, auditorium / convention centre, hotels & resorts, cinema hall, contain-ers, Open deck of Passenger ships, Trains, warehouses, workshops, Portable cabins, buses, etc..

## Is SUNTRAP eco-friendly?

Yes Very much, SUNTRAP is water based product, bio-degradable and VOC free. Moreover us have made the packing environment friendly by using very simple recyclable paper bag, and recyclable HDPE bucket to reducing the wastage

## What are the benefits to individual buildings?

Energy savings potential, Cost savings potential, Short payback period, Improved thermal comfort, Improved roof and equipment life. When it comes to energy savings, the power of one can become the power of many.

### Product type

Exterior & interior

### Recommended substrate

Concrete Tile roof  
Metal/Cladding roof Asbestos  
Fiber tank PVC and Pipe line etc..

## Cutting edge technology of SUNTRAP

Concrete is made up of high concentration of calcium oxide/hydroxide / car-bonate. Carbonation occurs when carbon dioxide reacts with the concrete and the pH of the environment drops to around 9. In this situation, carbonation becomes rapid, especially in industrial areas and towns where there is lot of exhaust emission from traffic. "SUNTRAP" coating have become a versatile choice to overcome the problem of carbonation.

Bacterial germs, fungi and other potentially 'nasty' micro-organisms 'hate' and can't live in dry, alkaline environments. This property is a distinct advantage. When "SUNTRAP" is used to paint internal walls that need to be aseptic such as sick room / quarantine in residences and other structures there is a marked improvement in the sterility aspect. This distinct advantage is limited only to "SUNTRAP".

## How long will it last?

Once "SUNTRAP" product applied, durability may get up to 5-7 years.

## Safety Features

Polychem follows all safety standards and regulations laid down by the-Government of India in the production of its product SUNTRAP.

### SURFACE PREPARATION

Before application, surface should be thoroughly cleaned with fungicide to free from efflorescence, dust,algae,fungi,or any other impurities.Then clean with normal water with pressure jet and allow to dry well. Previously painted surfaces should be washed out or brushed down.If the surface is in powdery or flaking condition, it should be removed by scraping or wire-brushing

### SURFACE TEMPERATURE

A too high surface temperature during application will lead to too quick drying of the coating, resulting poor adhesion. A too low substrate temperature may cause condensation on the surface preventing adhesion of the coating. Later peeling as consequence

## CRACK FILLING

In case of heat crack, prepare a solution (Base Cap 1 part, Claggy 1 part and water 1 part). Pour the prepared BASE CAP solution in to the crack and fill.

After filling, a paste has to be prepared using "BASE CAP" and Claggy (1:1 ratio) with sufficient water. Mix it thoroughly with the help of Putty mixer and apply this putty upon the crack with the help of putty blade.

Application side including 2 part.

- 1) BASECAP as Base Coat
- 2) SUNTRAP as Top Coat

### PREPARATION OF BASE CAP SOLUTION

Take 1 Lit. of potable water, add 1 Kg of Claggy and mix thoroughly. Add 1 Kg of Basecap powder in to the solution. Mix well. Now Basecoat is ready to use. Always add powder to liquid and to be applied within 20-30 minutes of preparation

## PREPERATION OF SUNTRAP SOLUTION.

Take 1 Lit. of potable water, add 0.5 Kg of Claggy and mix thoroughly. Add 1 Kg of SUNTRAP in to the solution. Mix well. Now SUNTRAP is ready to use. Always add powder to liquid and to be applied within 20-30 minutes of preparation

## APPLICATION METHOD

**1st Step:-** Before application spray water on to the surface for dampness but stagnated water should not be there.

**2nd Step:-** Pour BASECAP solution on to the surface using mug. Apply hard in circular motion with nylon brush. Keep in stir the solution until the last brush.

**3rd Step:-** Base coat when "Touch dry", usually after 30 to 45 minutes, apply "SUN-TRAP" solution as Top Coat with brush, spray gun or roller. Keep in stir the solution until the last brush.

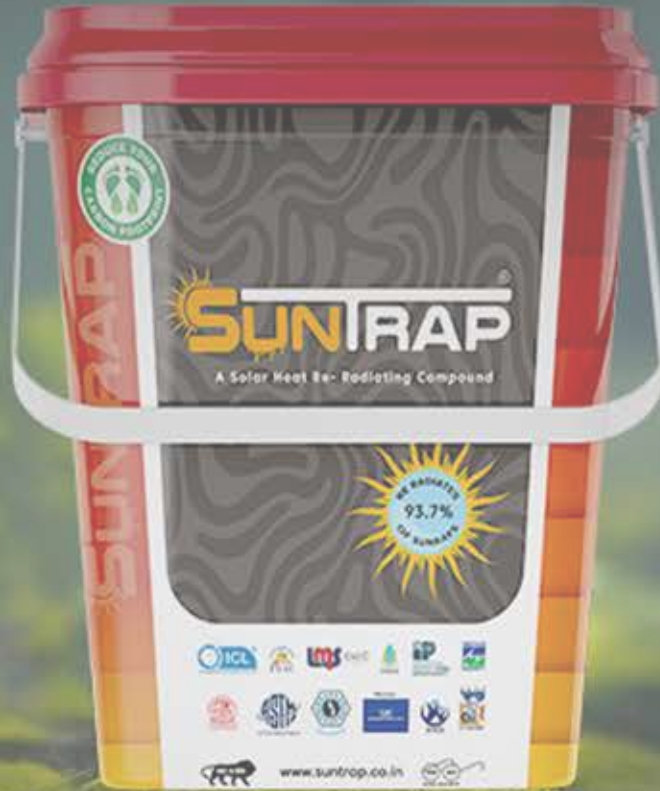
**4th Step:-** Next 3 days pour enough water upon Top Coat 3 to 4 times interval. Application \ should be done early in the morning at moderate temperature. In TIN sheets night time also advisable.

### Coverage.

1 Kg of both SUNTRAP & BASECAP is sufficient for 100 sq.ft on concrete with 120 micron DFT. (Actual coverage is depends on the surface condition)

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**34°C Ambient temperature**

**35°C Roof top temperature**  
HEAT GETS REFLECTED WITH "SUNTRAP" ROOF COATING

**51°C Roof top temperature**  
HEAT GETS ABSORBED WITH CONVENTIONAL PAINT ROOF COATING

Helpline Number +91 960 564 8888

Info@suntrap.co.in

www.suntrap.co.in