



## COOL ROOF HEAT REFLECTIVE COATING



**THERMOROOF XT** is an ultra-high-performance acrylic based thermal insulating and heat reflective coating, containing low density air filled micro voids with high SRI value for use in concrete and metal structures thus increasing the comfort zone and energy saving.

In our **THERMOROOF XT** coating design, there are three properties which keep roof surfaces cool under the sun.

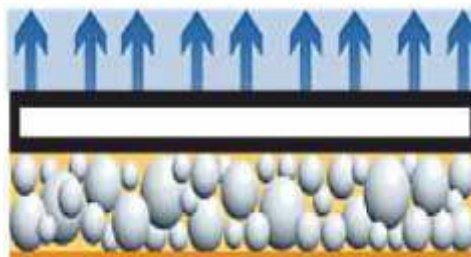
- High reflectivity to reflect away the Sun's energy instead of absorbing it.
- High emissivity to radiate away any energy they do absorb.
- Insulation through air filled micro voids that cuts any conduction of heat further from coating to the roof.

### How it works :

**THERMOROOF XT** is made up of materials having a combination of high reflectivity and high emissivity pigments those reduce roof surface temperatures, thereby reducing energy consumption.

**THERMOROOF XT** formulation contain well graded air (non conductor to heat) filled micro voids which give and insulation barrier further to any heat conduction.

It improves indoor comfort for spaces such as building, factories, ware house, sheds & frozen rooms etc. A reducing energy bill by decreasing air conditioning needs, cuts maintenance costs, prolongs the roof's service life.



white reflection layer

Air filled micro voids insulation

### Feathers and Benefits

- Excellent thermal insulation at low thickness.
- Excellent adhesion to concrete, metal & asbestos surfaces.
- Lower interior temperatures.
- Reduce air-conditioner running cost increases efficiency.
- Reduce carbon foot print.
- High coverage.
- Water based, environment friendly.

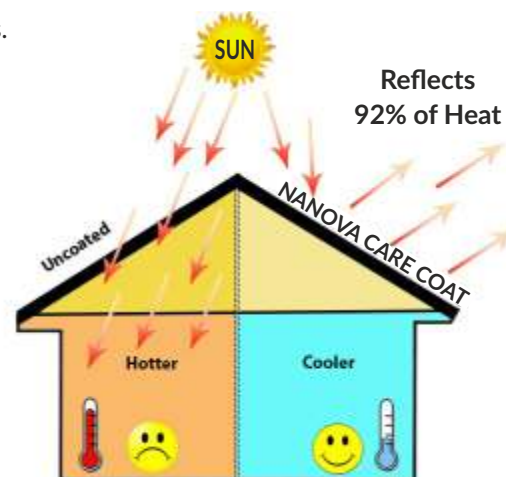




## Typical Applications:

- ▶ Concrete roof
- ▶ Corrugated metal roof, asbestos and cement sheets.
- ▶ HDPE tanks / Water tanks and pipe lines.
- ▶ Outdoor container cabins / pre-fabricated offices.
- ▶ Commercial buildings.
- ▶ Railway and other coaches.
- ▶ Metal buildings and industrial sheds.

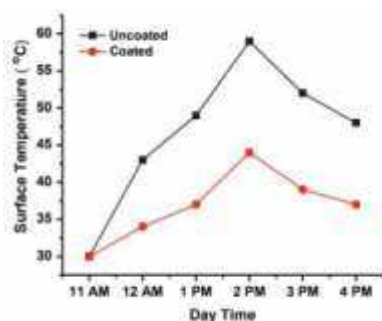
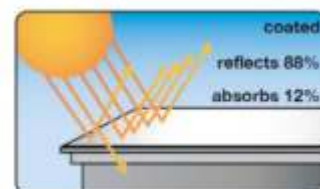
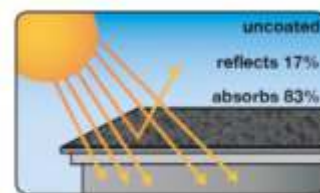
Properties	Unit	Standard	Values
Color	-	ASTM D 1544	White
pH Value	-	ASTM D 1293	6-8
Functional Cure	hrs	ASTM D 1640	24 hrs
Solar Reflectance	%	ASTM E 1549	0.90-0.94
Thermal Emittance	-	ASTM C 1371	0.88-0.92
Solar Reflective Index (SRI)	-	ASTM E 1980	104-110
Dry Film thickness	mm		50-60 micron in 2 coats



## Method of Application:

### Surface Preparation:

- ◆ Brush the surface to remove loose contamination.
- ◆ Wash with ultra high pressure water jet to clean and free the surface from dust, oil and grease.
- ◆ Please check moisture level and pH level in walls / roof / terrace / ceilings.  
Moisture 12% & pH = 7-9
- ◆ For metal use Ultracore Mastic 150 as an anti-corrosive primer prior to application of THERMOROOF XT paint.
- ◆ On roof PRIMER-XT or PRIMER WZK can be used as a primer, however, THERMOROOF XT can be used as a self-priming material.



“PRATISTHA” is well equipped with world class equipment and trainer applicator to execute the work in a professional way.

We have coating thickness meter, IR thermometer and adhesion test gauge to ensure high performance.

**Coverage :** 40-50 sq.ft./ltr. (2 coats) / Available pack size : 20 ltrs.

## Mixing

- ▶ Thoroughly mix the contents of containers.
- ▶ Stir the paint occasionally before each use.

## Application

- In case of concrete, surface should be moist / water wash before application.
- Apply first coat with brush on the cleaned and washed surface.
- Apply second coat after a gap of 1-2 hours
- After completion of full coating, it should be allowed to cure for 24 hrs.
- Ensure that the coated area does not come in contact with water for at least one hour.
- Apply with a quality brush or roller.

## PRATISTHA

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