



COOLING

STARTS WITH BUILDING ENVELOP



INSULATION PARTNERS
ENERGY EFFICIENT & PROTECTIVE BUILDING ENVELOP



Panache

Creating Cool Green Cities!



42°C

**Uncoated
Roof & Wall**

32°C

**Coated
Roof & Wall**

ROOF COOLING & INSULATION

When building protection is talked of – first consideration comes is of protection of Roof from heat & rain water. Roof is the main prone area for the destructions that can be caused by rain & heat. Maximum heat ingress is from roof due to which room temp is elevated & increased AC consumption is observed.

Roofs and pavements cover 60% of urban surfaces, and absorb more than 80% of the I R Radiation of sunlight that contacts them. This energy is converted to heat, which results in increased indoor temperature, hotter cities and higher energy costs.

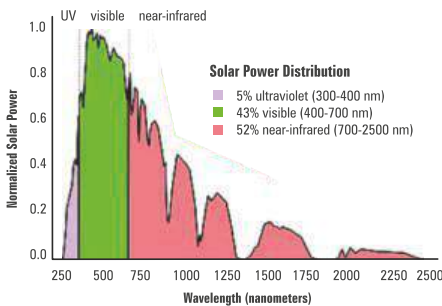
TECHNOLOGY

I R REFLECTION TECHNOLOGY & NANOTECHNOLOGY

Cool Roofs are a cost-effective strategy to save energy, improves cities, and cools the planet.

Cool Roofs are the roofs with primarily white color or any pastel color with High Reflectivity of IR Rays & having High Emissivity. Cool Roof Minimizes the Solar Heat Gain of a Building by First Reflecting Incoming IR Radiation, and not letting the radiation being absorbed by the substrate; beside this quickly re-emitting the Remaining Absorbed heat.

Thus Cool Roofs from Panache STOPS the HEAT GENERATION at the surface itself and thus reduces the INDOOR temperature extensively; improving energy efficiency, building comfort and the health and resiliency of urban populations. Cooler roofs thus also mean, Longer Life of roofs with crack prevention along with contribution to indoor cooling.



ROOF COOLING AND INSULATION FROM PANACHE PROVIDES WITH THE

COOL ROOF COATING - Indoor cooling by reflecting the IR Radiation
Reduce the ingress of heat generated by SOLAR RADIATION.

INSULATION -Insulated Screed (Insulmix) Reduce the heat & cold transmittance by controlling the thermal conduction.

BENEFITS

PANACHE'S COOL TOPS - 5 COATS MULTI PRODUCT SUSTAINABLE SYSTEM



HIGH SRI OF
107-109

COMPLIES FOR IGBC/LEED/
GRIHA SPECIFICATIONS

ECO FRIENDLY-LOW VOC
- LEAD & CHROMATE
FREE GREEN PRODUCT

INCREASES EFFICIENCY
OF SOLAR PANELS

SURFACE TEMPERATURE CAN BE
REDUCED BY UP TO 18-20 DEGREE C*

SAVE ON ELECTRICITY BILLS
BY UP TO 40%

REDUCE ROOM TEMPERATURE
BY UP TO 4-10 DEGREE C

EFFECTIVE ON ALL TYPES
OF ROOFS AND SURFACES-
CEMENT, METAL, ASBESTOS

INSULATIVE EQUIVALENT- R
EFFECTIVE 22- 24 BTU IN HOT
TROPICAL CITIES

INTERNATIONALLY
CERTIFIED



WIDE SPREAD INSTALLATION OF COOL TOPS CAN REDUCE
CITY TEMPERATURE BY UP TO 3 DEGREE C



FEATURES

BREATHABLE SYSTEMS

ANTI-ALGAE & ANTI FUNGUS TREATMENT

DUST REPELLENT — EASY TO CLEAN SURFACE

WATER & WEATHER PROTECTIVE

ALKALI & U V RESISTANT SYSTEM

PROVIDES TILE LIKE EFFECT WITH SLIGHT SHEEN

NO YELLOWNESS

LONG LIFE

* CONDITIONS APPLY



VARIANTS

On the basis of number of cooling products used /number of coats applied for the cool roof treatment there are three variants of Cool Roof treatment from Panache.

CLASSIC COOL TOPS -

(2 coats of Cool Guard + 1 Coats of Tran Seal)

PREMIUM COOL TOPS -

(2 coats of Cool Guard + 2 coats of Cool Top + 1-2 Coats of Tran Seal)

ASPHALT RESISTANT COOL TOPS -

(2 coats of Asphalt Prime + 2 coats of Cool Top + 1-2 Coats of Tran Seal)



BASE ANCHORING COAT

COMPONENTS

COOL GUARD

Cool Guard is a single component modified polymeric system, (To be mixed with water on site) to be applied as base coat to reduce the conduction of heat transfer. Cool Guard has high affinity for masonry substrate and it becomes part of the substrate giving an outstanding binding strength's & thus excellent base for Premium Cool Roofs.

APPLICATION - BY BRUSH

PACKING - 2 KG POWDER IN ONE PACK/UNIT

COVERAGE — 200 SQ FT / PACK; ON AVERAGE SMOOTH SURFACE



HIGH SRI 109

COOL TOP

Cool Top is a single component ready to use emulsion with high SRI 107 - 109 for Cool Roofs. It is an elastomeric coating applied as top coat; that protects the roofs mainly from Solar Gain. Mx Cool Top becomes an integral coating for Premium Cool Roof Treatment.

Cool Top amends roofs just like new and provides better cooling and aesthetics by bright white color with temperature stability. Its added advantage of Silicon cross linking Technology provides better elasticity, stability and life to the cool roof. It provides an outstanding long term UV protection and reflects back NIR rays of sun; those are responsible for heat production on surface. It's being eco-friendly, NIL VOC adds to environment benefits. Different color shades can also be achieved with reflective pigments.

APPLICATION - BY BRUSH / SPRAY / ROLLER

PACKING - 1 KG, 10 KG, 20 KG.

COVERAGE — 120 SQ FT/ KG; ON AVERAGE SMOOTH SURFACE

COOL TOPS NOW ON BITUMEN SURFACE ALSO !

CREATING COOL GREEN CITIES!

**Now, NANO
Reflective**



**WATER, DUST &
ALGAE REPELLANT**

TRANSEAL

Transeal is ready to use, single component, transparent Water protecting & Dust Repellent solution applied mainly as top coat on Cool Roofs to increase its life. It is flexible, non-tacky, U V resistant, resistant to ageing, heat-sealable, coating that provides tiles like effect to the Cool roofs. Application of Transeal maintains the aesthetic of pure white color for years. It provides anti carbonation effect and acid rain resistance to cool roof.

Now, Transeal is upgraded with nano materials to enhance the reflectivity & effectivity of cool roof system.

APPLICATION - BY BRUSH / SPRAY / NON DESTRUCTIVE SPONGE

PACKING - 1 LT, 5LT, 10 LT, 20 LT.

COVERAGE - 100 SQ FT / LT; ON AVERAGE SMOOTH SURFACE

ASHPALT PRIME

Ashpalt Prime - It is a water base primer with high resistance to bitumen, APP membrane & salt efflorescence etc. It has strong Asphalt leech resistance property & high bonding strength with the substrate, which makes it highly appreciable primer applicable on bitumen surface.

Its application on substrate with bitumen for Cool Roofing System increases life of the Cool Roofs, not compromising on its SRI value and cooling effect of the system . It also has anticarbonation effects and Salt resistance property , this makes Asphalt prime widely used primer for various application.

APPLICATION - BY BRUSH / SPRAY / ROLLER

PACKING - 1 KG, 10 KG, 20 KG.

COVERAGE - 120 SQ FT / KG; ON AVERAGE SMOOTH SURFACE

COOL TOPS

**HI SRI COATING :
2 COATS OF COOL GUARD
2 COATS OF COOL TOP**

COOL TOPS

**PROTECTIVE LAYER OF
TRANSEAL GIVING THE GLOSSY
FINISH TO THE COATING**

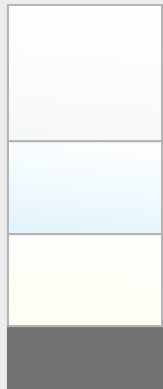
**HIGH
SRI**



APPLICATIONS OF COOL TOPS R EFFECTIVE UP TO 22 BTU



ASPHALT RESISTANT COOL TOPS



TRANSEAL

Top most Transparent
Dust & Water repellent layer
(1-2 Coat)

COOL TOP

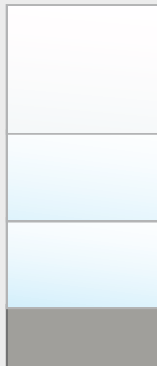
High Reflective Top Layer
(2 Coat)

ASPHALT PRIME

Asphalt Resistant Primer
(2 Coat)

Asphalt Coated Roof

PREMIUM COOL TOPS



TRANSEAL

Top most Transparent
Dust & Water repellent layer
(1-2 Coat)

COOL TOP

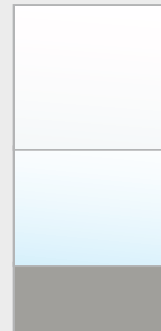
High Reflective Top Layer
(2 Coat)

COOL GUARD

Reflective Base Later
(1-2 Coat)

IPS/RCC/China Mosaic

CLASSIC COOL TOPS



TRANSEAL

Top most Transparent
Dust & Water repellent layer
(1-2 Coat)

COOL GUARD

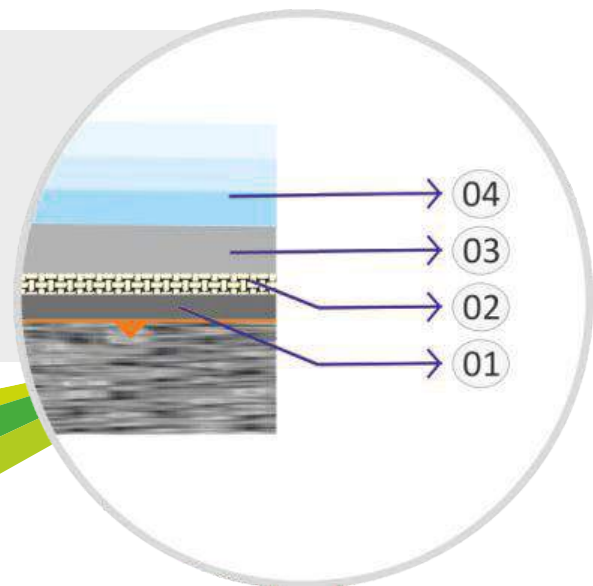
Reflective Base Later
(1-2 Coat)

IPS/RCC/China Mosaic

WATERPROOFING & COOLING ON TERRACE -

ROOFS OF AFFORDABLE HOUSES ROOF WITH EXISTING SLOPE IN RCC

- 04 Premium Cool Roofing System
- 03 IPS with Hi CE Pack / Self Leveling Screed
- 02 FASCERS Seal (Fabric Reinforced Waterproofing)
- 01 Eco CE Bond



FASCRS SEAL

COOLING & WATER PROOFING ON INDUSTRIAL CORRUGATED ROOF



Stage 1



Stage 2



FASCRS Seal Roof

**FASCRS SEAL SYSTEM
(FABRIC - APPLIED
SUSTAINABLE
COOL ROOF SYSTEM)**

PREMIUM COOL TOPS - STAGES OF APPLICATION



BEFORE



COOL GUARD APPLICATION



COOL TOP APPLICATION



FINAL FINISH TRANSEAL APPLICATION

SOLAR COAT™

HIGH SRI REFLECTIVE PAINT FOR DRIVE WAY / PAVEMENTS



Solar Coat is Cooling, Elastomeric Reflective Coatings for Pavements

Solar coat is a light greenish / whitish grey / White pre packed nano technology & IR technology based ready to coat paints composed of acrylic binders with reflective pigments, reflective agents, microspheres and minerals and special additive for crack prevention and anti-algae and anti-fungal components.

APPLICATION

Drive ways
Pavements
Roof of affordable houses
Require smooth surface for better finish and aesthetics.

BENEFITS

SOLAR COAT provides better solar insulation with desired high reflectivity & emissivity. It keeps the surface temperature reduced which helps to keep the city temperature in control when applied at mass level. It has strong bonding with the substrate and easy to apply .



REDUCES HEAT ISLAND EFFECT.

REFLECTIVE DRIVEWAYS CONTRIBUTES IN
GREEN BUILDING RATINGS SYSTEM



SOLAR CRETE™

HIGH SRI SELF LEVELLING MORTAR MIX SCREED FOR DRIVE WAY / PAVEMENTS



Solar Crete is a light greenish / whitish grey pre packed cement based powder mortar mix composed of special hydraulic binders with reflective pigments, reflective agents, microspheres and minerals and special additive for crack prevention and anti-algae and anti-fungal components.

APPLICATION

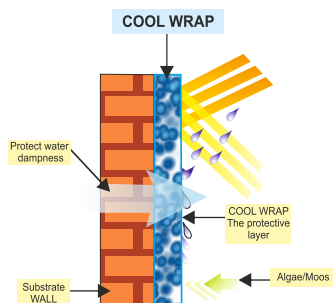
Drive ways
Pavements
Roof of affordable houses
Protective coat in waterproofing system on RCC.

BENEFITS

Solar Crete provides better solar insulation with desired high reflectivity & emissivity. It keeps the surface temperature reduced which helps to keep the city temperature in control when applied at mass level. It is fast drying & self-leveling, making it covering the undulation of RCC or surface. Its thickness is maximum 5-6 mm.

COOL WRAP™ FOR COOL WALLS

REFLECTIVE COOL EXTERIOR WALL COATING



**COOL WRAP : COOLING & WATER PROOFING,
CRACK PREVENTION**



PREMIUM COOL WRAP

**COOL, WATERPROOF & CRACK
FREE DECORATIVE WALL COATING**

**SRI 107; COMPLIES IGBC /
LEED / GRIHA / ECBC SPEC**

COOL WRAP-IR REFLECTIVE HIGH ALBEDO COATING FOR WALL

Cool Wrap is single component coating for the walls which are designed to insulate, seal, restore and protect wall surfaces. They provide energy conservative envelop of the wall surface. It can be made into colored finish with special reflective pigments.

TECHNICAL FEATURES & BENEFITS

Internationally Certified for SRI 107.

UV Resistant, Eco Friendly

Reduces AC running cost, Electricity Bills

Reduces Heat Island Effect (Cools atmospheric Temp)

Replaces need of any other paint

Elastomeric, Weather resistance

Stain Resistance, have dust Repellence.

Anti algal & fungal property.

Life 5-8 years

COLOUR CHART FOR COOL WRAP™

Colour	Name	Solar Reflectivity	Colour	Name	Solar Reflectivity
	Snow White	90%		Golden Yellow	80%
	Cream	82.1%		Ivory Cream	80%
	Soft Glow	80%		Green	80%
	Rosie Pink	80%		Little Angle	80%
	Dolpjin Blue	80%		Sea Green	80%

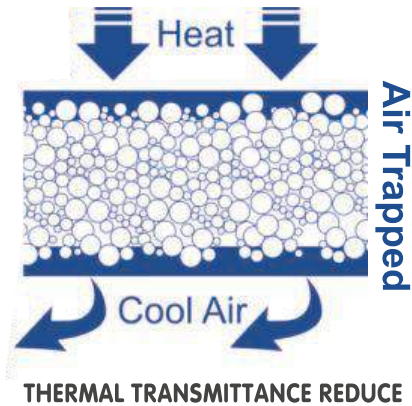
Limitation

Due to reduction in reflectivity with the increase of impurities & pigmentation Cool Wrap is available in pastel shades only.

INSULMIX™

INSULATED SCREED (MORTAR MIX)

**TIME TESTED FOR PLATINUM
RATED GREEN BUILDINGS**



**LIGHT GREY
COLORED,
CEMENT BASE
MOTOR MIX**

**INSULATED MORTAR
FOR REDUCING THERMAL
TRANSMITTANCE FROM
HOT & COLD SOURCE...**

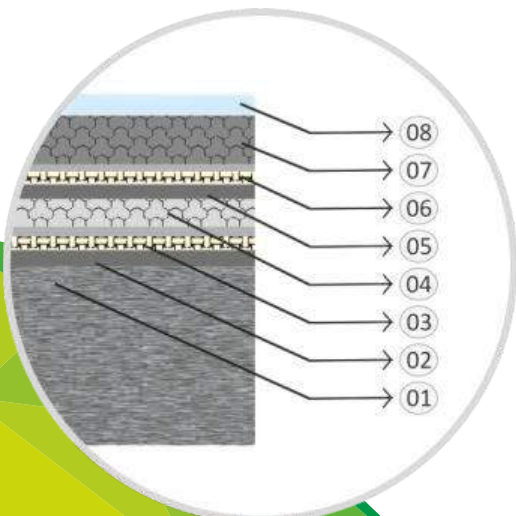
UNIQUE FEATURES

InsulMix is made of expanded clay, microspheres and insulating minerals. the resultant cellular structure accounts for the lightweight and excellent thermal insulation properties.

Compared to the other light weight mortars, however InsulMix is more resistance to rain water and has higher strength.

APPLICATION AREA

Insulated BBC & Retrofitting existing roof for insulation
Before tiling & Between wall panels for insulation
CIS Roofing System



CIS ROOFING - COOL INSULATED & WATERPROOF ROOFS

ROOF ASSEMBLY R VALUE ACHIEVED UP TO 20 BTU

- | | | | |
|----|--------------------------------|----|---|
| 08 | Premium Cool Roofing System | 07 | PCC / BCC for slope |
| 06 | GEO fabric with Hi Seal Slurry | 05 | Eco CE Bond |
| 04 | Insulated Screed | 03 | FASCRS Seal (Fabric Reinforced Waterproofing) along with protective plaster |
| 02 | Eco CE Bond | 01 | RCC |

INSULMIX™

INSULATED WALL PLASTER

NEW

COMPLIES WITH SPECS OF GREEN BUILDINGS
IGBC , GREEN PRO, GRIHA, LEED...ETC.

COOLING

STARTS FROM BUILDING ENVELOPE

**GREY LIGHT WEIGHT PLASTER
FOR INTERIOR & EXTERIORS**

UNIQUE FEATURES

Insulated Cement Based Light Weight
Grey Wall Plaster Reducing Thermal
Transmittance From Hot & Cold Walls !

APPLICATION AREA

All type of walls , bricks, ACC blocks etc.

INSULMIX WALL PLASTER

Better Insulation
Better Resistivity
Acoustical Benefits
No Crack Development
High Strength
No Water Seepage
Rapid Curing Time



SHEEN WRAP™

GREEN INTERIOR FOR GREEN WALLS



**NO SMELL !
NO TEARS !
NO LEAD !
COMPLETELY
SAFE FOR HEALTH !**

ENERGY EFFICIENT ECO PAINTS

BRING HEALTH TO YOUR HOMES !



PREMIUM

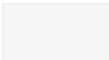

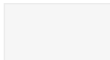
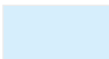




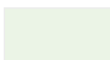




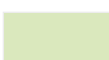
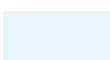
INSULATED BRIGHT INTERIORS

LOW VOC INTERIOR PLASTIC EFFECT PAINT !

**INCREASES EFFICIENCY OF AC !
CONTROL THERMAL TRANSMITTANCE !
REDUCES CONDENSATION !**

LRV 89.04% - BRIGHTENS THE INTERIOR

COLOUR CHART FOR SHEEN WRAP™

Colour	Name	Colour	Name	Colour	Name
	Light Grey		Golden Yellow		Snow White
	Blue Way		Ivory Cream		Cream
	Pink Idea		Green		Soft Glow
	Gold Eye		Little Angle		Rosie Pink
	Cool Green		Sea Green		Dolpin Blue

Additional and Custom Colours Available

COOL TANKS

Cool & waterproofing system for Tank from Panache provides temp reduction to the solvents, petroleum and other components in tank; this leads to solvent retention of heat sensitive in the tanks.

The Cooling system for tank provides chemical, corrosion, fire resistance & waterproofing - cooling to the stationary and mobile tanks. The waterproofing technique for panache prevents the insulating effect of the PU Foam or any other insulation system on the tanks from destruction.

The elevated temperature in hot summers can lead to fire in petrol / solvent tanks. The Panache's cooling system can prevent the fire incidence in the solvent & petrol dealing industries.

**SRI 107 REDUCES EVAPORATION LOSS
SAVES 1170 BARRELS OF PETROL ON 1500M3 STORAGE**



GALLERY



BEFORE



AFTER



ARTISTIC ROOFS



BEFORE



AFTER



BEFORE



AFTER



BEFORE



AFTER



BEFORE



AFTER



BEFORE



AFTER



BEFORE



AFTER



BEFORE



AFTER

PROJECT REFERENCES

THE SIGNATURE — GIFT CITY (HIRANANDANI PROJECT)

BEARYS TURNING POINT

GE (ALSTOM)

SICGIL INDUSTRIAL GASES LTD. (VADODARA & CHENNAI)

GNFC, BHARUCH

MGVCL, ANAND, VADODARA.

IPCA, RATLAM.

RELIANCE, JAMNAGAR.

ERDA, BARODA.

AKRUTI CITY PVT. LTD. (MUMBAI)

APOLLO HOSPITAL, FARIDABAD.

RAJ HANDICRAFTS & MANY MORE, JODHPUR.

GEO TEST HOUSE, BARODA.

BATLIBOI, SURAT. (PROJECT OF ARK. KARAN GROVER)

IIT PAWAI, MUMBAI

AGAST ASHRAM, ANAND

ASOPALAV PROJECTS, BARODA.

COLGATE PALMOLIVE, SANAND

AMUL

GFL

ADANI, MUMBAI

AMITY UNIVERSITY, MUMBAI

NAKODA TIRTH, BALOTRA (RAJASTHAN)

KANCHAN MILLS

AFFORDABLE POLICE HOUSING (GOVT. OF KARNATAKA)

MANGALA GREENS, BARODA

ASTRAL POLY TECHNIK PVT. LTD., AHD.

KOHINOOR CITY PVT. LTD. (MUMBAI)

AKRUTI CITY PVT. LTD. (MUMBAI)

CRISIL HOUSE

BOMBAY UNIVERSITY

INDUSTRIAL SOLVENTS

SAVVY INFRASTRUCTURES

NAVRACHNASAMA, BARODA.

VEDANT BUILDERS, BARODA.

AMUL DAIRY, ANAND.

TARU, SURAT, INDORE.

TGB, NADIAD.

INORBIT, VADODARA.

BASANT HANDICRAFTS (RAJASTHAN)

VINOD HANDICRAFTS (RAJASTHAN)

DESIGN CO , MURADABAD

SHIV NADAR UNIVERSITY

RAJPUTANA DISCOVERY (RAJASTHAN)

GUDCHANOD (RAJASTHAN)

MARVAR MUSLIM EDUCATION SOCIETY (RAJASTHAN)

RR GLOBAL, JAROD

JACK SONS. MUMBAI

AND MANY MORE...

ACHIEVEMENTS



CERTIFICATES



AWARDED WITH GREEN PRO SHIELD.



PARTICIPATED IN RESEARCH PROJECT OF DOE - US.



PANACHE WON BEST COMPANY IN COOLING AND WATERPROOFING IN CIA AWARDS 2018



INVITED BY GSEP, US IN ASSOCIATION OF DEPT OF ENERGY.

COMPLETE ROOF SOLUTIONS -

All type of roofs -
flat / slant / corrugated industrial roofs
Cool Roof
Insulation
Waterproofing

COMPLETE WALL CARE - INTERIOR

Low VOC plastic effect insulated
interior paint with LRV 89%
Salt Resistant Primer
Insulation

COMPLETE WALL CARE - EXTERIOR

Exterior Cooling Paint
Salt Resistant Primer
Insulation
Waterprotection

ANTI CORROSION TREATMENT

Rust Dissolver & Inhibitor
Rust Protective Top Coat

**WATER BASE
WOOD FINISHES**

Timber Preservative
Sanding Sealer
Timber PU Coat

Timber Lacquer
White Coating
Tannin Inhibitor

CUSTOMIZED WOOD FINISH DEVELOPMENT FOR TURNKEY PROJECTS

