Indicus

Make Your Roof Smarter

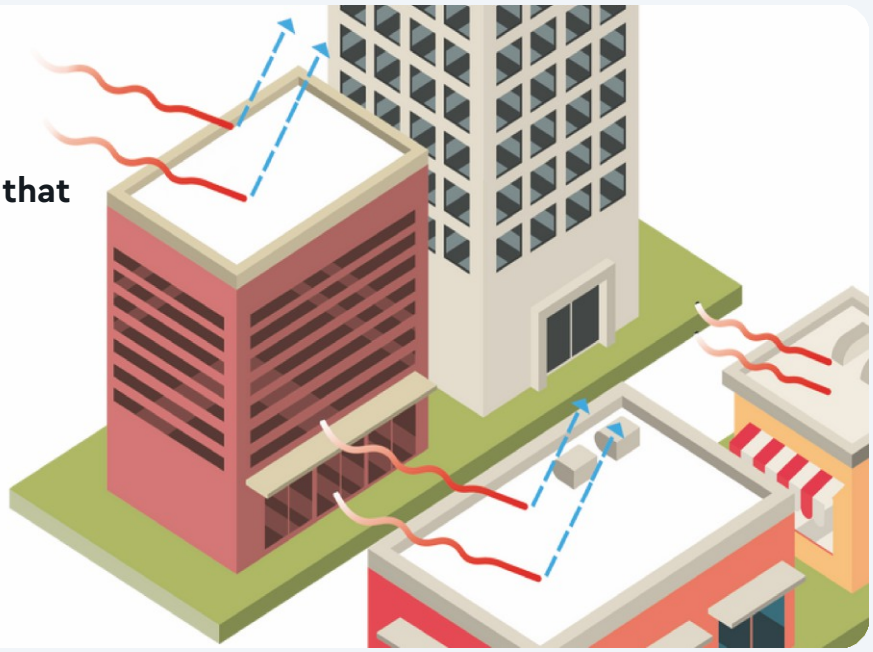
Roof Coating System That Makes Your Home Energy Efficient

1800 599 3939

www.indicus.in

Heatseal is a 'Cool Roof Paint' that enables the surface to reflect up to 80% of the sun's rays.

80%



Effective and eco-friendly solution

Environmental footprint of buildings is increasingly becoming a point of concern everywhere around the world. Consumers expect solutions that are environmentally friendly – from design to appliances. While energy neutral buildings are being designed, existing buildings still account for 40% of total CO_2 emissions on a global scale.

With a warming world and increasing number of hot and humid days, population number, urbanization, incomes, along with affordability of ACs, India's AC requirement is set to rise steeply.

According to a new study, use of air-conditioning is likely to expand in the next two decades covering 69% of the household from the current coverage of 13%. This is expected to push the country's electricity requirement up by three times from the HVAC sector alone over the next two decades.

While use of air-conditioning is essential for health and well-being, it is becoming a contradiction as ACs use hydrofluorocarbons (HFCs) that contribute to the emission of greenhouse gases (GHGs), the primary cause of climate change. It has been suggested that installing cool-roof coating is among the easiest and least expensive solutions to make a building cooler and cut carbon emissions.

Indicus offers an effective roof-coating system that reflects solar radiation back into space - Heatseal. It reduces the need for air conditioning and has a positive effect not only on the environment but also on the indoor climate of buildings and reduces energy costs.

While energy-saving systems typically take years to pay for themselves, Indicus Heatseal has immediate effect.

Heatseal coating system's energy-saving capabilities quickly translate into real savings because it requires a minimal commitment of time and money.

While energy-saving systems typically take years to pay for themselves, Indicus Heatseal has immediate effect. Heatseal coating system's energy-saving capabilities quickly translate into real savings because it requires a minimal commitment of time and money.

The majority of solar heat radiation is infrared radiation (IR). Heatseal reflects in average up to 80% of it compared with a conventional roofing system.

Therefore, warmer the climate, higher the reflection and the effect.

Heatseal - a unique 2-in-1 coating system

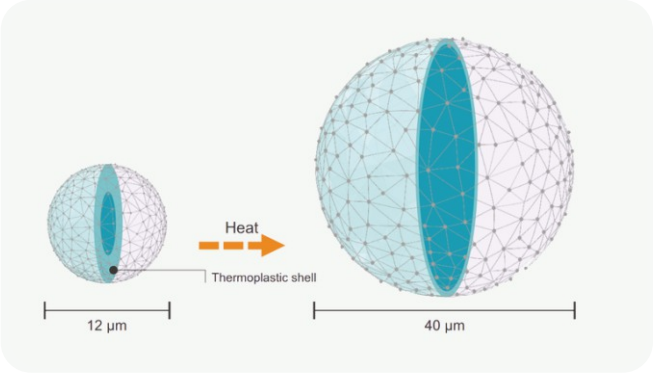
Indicus Heatseal is a heat reflective waterproof coating for all types of cementitious surfaces. Its long lasting glossy white colour and specially added microspheres reflect solar radiation back into the atmosphere and keeps the interior of the building cooler. Heatseal forms an elastic and tough membrane that provides excellent resistance against ingress of water.

Indicus Heatseal roof-coating system has a documented solar reflectance proven by CRDF laboratory. The 'Cool Roof Paint' is based on a technology that enables the surface to reflect solar heat radiation and also improve thermal insulation. This helps Heatseal reduce the temperature by up to 10°C. With lowered exposure to solar radiation, the overall quality, service life and functionality of the roof is also significantly improved.

- **Makes your house cooler by up to 10°C**
- **Around 20% reduction in energy cost**
- **Improved service life of roofs**

Buildings coated with Heatseal have lower temperature, which requires less energy to cool down with air conditioning system. This reduces the need for cooling that translates into more savings and less CO_2 emission.

Indicus Heatseal has added microspheres, which are tiny gas-filled thermoplastic bubbles that expand when heated. They form voids in the coating that significantly reduces the thermal transfer into the building.



As Heatseal is highly elastic, it accommodates movement of thermal expansion & contraction and bridges cracks up to 0.5 mm width. It delivers excellent resistance to ingress of rain & stagnant water.

Superior Benefits
- Improved indoor climate
- Lower energy cost
- Lower CO_2 emissions
- Extended service life of roof

Features

Added Microspears: Microspheres form voids in the coating that significantly improves thermal insulation.

Environment Friendly: Heatseal significantly reduces the cost of air conditioning, which reduces the emission of CFCs that causes damage to the ozone layer of the atmosphere.

Reflects Heat: Heatseal has high solar reflectance that reflects visible light and reduces the surface temperature.

Elastic: Heatseal accommodates movement of thermal expansion & contraction and bridges cracks up to 0.5 mm width.

Excellent Weather Resistance: Durable, UV & IR resistant membrane that enhances service life of the coating.

Excellent Waterproofing: Heatseal delivers excellent resistance to ingress of rain & stagnant water.

Areas of Application

INDICUS HEATSEAL can be used in:

- Roofs, slabs & terraces
- Surfaces like concrete screeds, asbestos, lime terrace, brick-bat coba, etc. after suitable surface preparations and repairs
- External walls & water tanks

Technical Properties

Heatseal

Colour	Bright white
Specific Gravity	1.05 ± 0.05
Viscosity @ 27°C	125 KU
Tensile Strength	1.5 N/mm^2
Solar Direct Reflectance*	86%
Solar Reflective Index*	110
Elongation	60%
Waterproofing Warranty**	4 Years

Heatseal Advanced

Colour	Bright white
Specific Gravity	1.05 ± 0.05
Viscosity @ 27°C	125 KU
Tensile Strength	1.8 N/mm^2
Solar Direct Reflectance*	86%
Solar Reflective Index*	110
Elongation	90%
Waterproofing Warranty**	8 Years

*On tested conditions.

**Conditions apply. Please refer INDICUS HEATSEAL Warranty Guide for conditions and information on the warranty available at www.indicus.in/warranty.

Application Procedure

1. Clean the surface thoroughly and repair the damages, if any, using polymer modified repair mortar.
2. New cementitious surfaces should be allowed to cure for minimum of 28 days before coating.

On Horizontal Surface

1. Apply one self-priming coat by diluting HEATSEAL with 30% clean water on the surface and allow it to dry.
2. Apply one undiluted coat of HEATSEAL and allow it to dry.
3. Apply the second undiluted coat of HEATSEAL perpendicular to the first coat.

On Vertical Surface

1. Apply one self-priming coat by diluting HEATSEAL with 10% water on the surface and allow it to dry.
2. Apply one undiluted coat of HEATSEAL and once dried, complete with top coat.

Coverage

- On horizontal surface, approx. 10 sq.ft./L for 3 coats.
- On vertical surface, approx. 25 sq.ft./L for 2 coats.

Coverage is dependent on the degree of dilution, surface condition and method of application.

Cautions

- Do not stir in high speed.
- Do not apply during rains.
- Ambient temperature and material temperature should be between 10 to 40°C.
- Ensure parapet walls, outlets, protrusions and corners are properly coated to achieve full waterproofing.
- The coating is not designed for heavy foot traffic.

Shelf Life & Storage

Shelf life is 24 months from the date of manufacturing, if stored in unopened and original packaging. Store in cool & dry place away from direct sunlight.

How Heatseal Made My Summer Easier?

Listen to Mrs. Meera Christopher, Chennai sharing her experience of Indicus Heatseal making her home cooler, reducing the AC usage and her indoor home environment more comfortable during scorching summer.

YouTube

Indicus

WV2

VNC Rising with values

VNC ELECTRODES
3, Industrial Estate, S.Vellalapatti,
Karur - 639004 Tamil Nadu, India.
www.vncgroup.com

Toll Free **1800 599 3999**
Email **indicus@vncgroup.com**
Website **www.indicus.in**