NanoTech Materials Cool Roof Coat

Revolutionary Acrylic Coating

DESCRIPTION:

NanoTech Materials Cool Roof Coat is a high-performance, elastic polymeric coating used in the protection of roofs, walls, and buildings. The product acts in the direct protection of the surface and in the reduction of the heat absorbed from structures exposed to sunlight, due to its reflectance, emissivity, and low constant of thermal conductivity properties. Due to its efficiency, this product reduces the degradation caused by the incidence of UV radiation and allows the maintenance of flexibility, resistance, and longevity of existing roofing materials. As heat transfer is reduced, this product helps reduce energy consumption in buildings and also reduce the amount of carbon-based gases in the atmosphere from cooling systems.

APPLICATION:

This product is primarily designed for outdoor use. For the application of this product, you must wear protective clothing, gloves, and glasses.

For a high-quality application, a minimum ambient temperature of 40°F and rising with a maximum relative humidity of 85% must be respected. Never apply the product at temperatures below 40°F, as the product is water-based, and freezing will cause irreversible damage. This product should not be exposed to rain, water, or any other liquids during application and for 48 hours after the final layer has been applied. See application manual for more details.

Before starting the application, repair the entire coverage of the roof with suitable products. When possible, the product should be applied on a clear and/or sunny day. Application can be carried out using a 3/4" external paint roller or professional airless sprayer. For a detailed application process, consult our application manual.

For quality and performance gains, the material should be applied in thin layers of at most 28 wet mils (typically one coat of an airless sprayer). Apply the second coat perpendicular to the first and so on. The consumption of the product will be 2.5 gallons per 100 square feet. On our 10-year warranty system coating should be applied 28 wet mils and dry film thickness (DFT) should be a minimum of 20 mils. For further details on our other warranty systems, please view our Cool Roof Coat Coverage Rates. Allow a minimum of 4 hours between coats. A complete cure requires takes 24 to 48 hours. All roof surfaces must maintain adequate drainage.

The product must be stored at temperature ranging from 40-100°F. Freezing will result in irreversible product loss.

OUTSTANDING FEATURES:

- Water-based acrylic coating that significantly reduces heat transfer through the roof
- Significantly extends roof life
- High quality resin with 71% solids
- Reduces HVAC usage by up to 50%
- UV resistant, waterproof, no-crack flexibility, & up to 2" hail resistance
- Easy spray-on or roll-on application
- Engineered, designed, and assembled in the USA

PACKAGING:

Generally, the product is packed in plastic 5-gallon bucket containers of product but can be packed in different types of packaging systems, such as 55-gallon drums and totes.

MAINTENANCE:

Damaged areas should be cleaned and free of loose debris. Damaged areas may be repaired by re-application of NanoTech Materials Rain Safe Leak Repair

PRECAUTIONS:

Read the container label warning and Safety Data Sheet (SDS) for important health and safety information prior to the use of this product.

TECHNICAL DATA

Color	White
Appearance	Emulsion
Aspect	White or Slightly Beige
Odor	There is no predominant odor
PH	Not applicable
Fusion Point	Not applicable
Freezing Point	In bucket: 32°F | Applied and cured: -30°C
Initial Boiling Point	100°C
Evaporation Rate	<1
Flash Point	Not applicable
Flammability	Non-flammable
Lower/Upper Flammability and Explosive Limits	Not applicable
Vapor Pressure	No data available
Vapor Density	(Ar = 1) 3 for 4

TECHNICAL DATA

Relative Density	between 1.100 e 1,600 kg/m3 (between 1.1 e 1.6 g/cm3 density) a 15°C
Non-Volatile Solids	> 60%
Solubility in Water	Soluble in water
Auto-ignition Temperature	Not applicable
Decomposition Temperature	>450°C
Viscosity	40,000 - 50,000 cP