SUSTAINABLE WATERPROOFING

Thermoflect™

Commercial Roof Coating • Solar Reflective

Technical Data

BASIC USES:

- Acts as a protective roof coating that extends service life.
- Blocks moisture and harmful UV rays.
- Suitable for use on metal, PUF (polyurethane foam), BUR (built-up roofing), modified bitumen, EPDM, and concrete substrates.
- Enhances energy efficiency and provides cooling benefits.
- Improves staff productivity by reducing indoor temperatures.

COLOR

ULTRA WHITE

Packaging U.S. Measures:

5-gallon pails
55-gallon drums
275-gallon totes

WARRANTY:

The Company guarantees that the Product, when correctly applied to the roof following the Company's installation instructions, will remain free from material defects and maintain its waterproofing performance for a period of ten (10) years from the date of application. Please refer to the limited warranty for further details.

PRODUCT DESCRIPTION:

ThermoFlect is a high-quality elastomeric acrylic roofing compound featuring excellent elasticity properties, organic coloring pigments, and chemical additives. This advanced product combines waterproofing, reflective cooling, and energy-saving properties with solar reflectance capabilities. Utilizing nanotechnology, it offers thermal insulation and waterproofing in a single application. The seamless elastomeric layer formed provides superior durability and weather protection, extending the service life of roofs and walls. ThermoFlect exceeds U.S. federal Energy Star® specifications, ensuring energy efficiency and cooling benefits.

APPLICATION GUIDELINES:

- Ensure the surface is clean, dry, and in good condition. Remove all dirt, debris, and grease.
- Apply only to roofs with positive drainage (minimum slope of 1/4 inch per foot). This product is not recommended for areas prone to ponding water.
- Apply ThermoFlect using a medium nap roller, brush, or airless spray equipment. Airless spray is the most efficient method, but rolling or brushing may be used for edges, terminations, or repairs. Backrolling sprayed material may be necessary to fill pinholes on the substrate. The final cured dry film thickness must be free of voids, pinholes, cracks, or blisters.
- Apply in two coats. Each coat should be applied at 1.3 gallons per 100 sq. ft. for a total of 2.6 gallons per 100 sq. ft.
- Allow the first coat to dry for 3–8 hours, depending on temperature and humidity, before applying the second coat.
- Do not apply late in the day when dew or condensation may form or if rain is expected.

WET MATERIAL:

Typical Product Characteristics:	
Viscosity	22,000 – 26,000 Cps- 77° F
Weight per gallon	11.26 – 11.43 lb.
Solids	71% - 74 %
Flashpoint of solvent	90-97°F
VOC	< 50 g/l
CURED COATING Typical Performance Properties:	
Dry to touch @ 77° F (50% rel. humidity)	4 hrs
Ultimate Elongation	450% min.
Tensile strength	230 psi min.
Peel Adhesion	2.1 pli
Water vapor permeability	0.00075 ng/Pa·s·m
Moisture absorption (7 day submersion)	<5.00% max
Service Temperature	50° - 113° F
SRI. Solar Reflectance Index. Reflectivity	85.84%
Thermal Emittance	0.80
Thermal Conductivity	0.04 Btu/h-ft-ºF

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Our products are designed, selected and tested under open innovation models that support researchers and scientists in technology development.

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STORAGE AND HANDLING INSTRUCTIONS:

- For optimal shelf life, store the product between 50°F and 110°F, away from direct sunlight.
- When stored under these conditions, the product maintains a shelf life of one year in an unopened container from the date of manufacture.

APPLICATION EQUIPMENT:

ThermoFlect can be applied using medium nap rollers, brushes, or airless spray equipment. Airless spray application is the most efficient method, while rolling or brushing is recommended for touch-ups, flashing, edge terminations, or filling voids, pinholes, and cracks.

- Brush: Use a synthetic filament brush.
- Roller: Use a roller with a 1¼" nap.
- Airless Spray: Use equipment capable of maintaining a minimum orifice tip size of 0.027" or greater with a pressure of 2,300 PSI at the tip.
- Filter screens should be 30-mesh or larger.

TRANSPORTATION:

The product can only be transported on one pallet with a maximum stacking of 3 buckets.
DO NOT STACK ON TOP OF OTHER PALLETS, AS THE PRODUCT MAY BE DAMAGED.

Do not ship the product at temperatures below 23°F.

SHELF LIFE:

When stored under the recommended conditions, the product retains its properties for up to 8 months in an unopened container.

LIMITATIONS:

This product should not be applied to surfaces that are subject to hydrostatic pressure or high levels of vapor. It is also unsuitable for areas prone to ponding water. Any issues with water buildup must be resolved prior to application.

GENERAL HEALTH & SAFETY PREACUTIONS:

This product is intended for use by trained and professional personnel only. Material Safety Data Sheets (MSDS) for this coating are available by scanning the provided QR code. Anyone handling this product should read and understand the MSDS prior to use.

WARNING:

- Hand protection.
  Chemical-resistant gloves such as nitrile or neoprene.
- Eye protection.
  Chemical safety goggles or face shields.
- Skin and body protection.
  Long-sleeve clothing, and chemical-resistant aprons if there's a risk of spills.
- Respiratory protection.
  N95 respirators or higher protection.

DISCLAIMER:

The information provided in this technical data sheet is for guidance purposes only and is based on tests conducted under controlled conditions. NexGen RoofTECH makes no guarantees regarding specific results due to factors beyond our control during the application and use of the product.
It is the customer's responsibility to assess the suitability of the product for their specific purpose. NexGen Coatings assumes no liability for damages resulting from improper use or application of the product. For specific guidance, please contact our technical team.

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