

Cool Roof System

Energy-Efficient Reflective Roof Coating for Commercial & Industrial Applications

FlameOFF® Cool Roof System is an innovative and cost-effective protective solution designed for roofing and exterior substrates. It provides long-term defense against harsh weather conditions while enhancing energy efficiency. The coating system reflects solar radiation and reduces heat absorption, leading to significant energy savings and increased comfort. Made from high-quality, eco-friendly materials, it is easy to install and maintain.

APPLICATIONS / SURFACES

Roofing: Metal roofs, concrete roofs, composition roofs
Exterior: Concrete exterior walls and structures

Ideal for commercial and industrial applications where durability, longevity, and sustainability are essential.

KEY FEATURES

- Easy spray or roller application
- Zero VOC, water-based, low toxicity
- No fire hazard, no flash point
- Quick dry time, simple air dry
- Clean with soap and water
- Good coverage

PHYSICAL CHARACTERISTICS

Appearance	Highly Reflective White	Base Type	Water-based
Odor	Light Sour	Flash Point	N/A (No fire hazard)
Solids Content	65% by Volume	VOC	0 g/L
Viscosity	8,000-10,000 CPS	Weight	12 lb/gal, 1.44 kg/L

COVERAGE & FILM THICKNESS

COVERAGE RATE

160 sq ft/gal, 4 sq m/L

Coverage varies depending on porosity and texture of substrate.

FILM THICKNESS

Per Coat: 15 mils WFT / 9.75 mils DFT

Total (2-3 coats): 20-30 mils DFT

Minimum 20 mils dry recommended.

SURFACE PREPARATION & APPLICATION CONDITIONS

Important: Surface should be dry, free and clear of any dirt or debris. Air and surface temperatures should be between 45°F and 105°F (7-41°C), with relative humidity (RH) at 90% or less.

APPLICATION METHODS

Important: Apply as provided - DO NOT DILUTE. Apply with a conventional airless sprayer or roller. Protect from rain for 48 hours after application.

APPLICATION EQUIPMENT

Best applied with a roller or commercial grade airless paint sprayer.

- Minimum operating pressure: 2,000-3,000 PSI
- Recommended tip size: 0.017 or 0.019, 4-5" fan

DRYING TIME (@77°F, 50% RH)

Touch Dry: 30 minutes

To Reapply: 60 minutes

Dependent on temperature and humidity.

APPLICATION TIPS

- Use conventional airless sprayer or roller
- Apply minimum 2 coats for optimal protection
- Ensure minimum 20 mils dry film thickness
- Allow proper drying between coats

CLEAN UP

- Do not allow material to dry in sprayers
- Immediately after use, wash equipment with **soap and water**
- If material has dried, use commercial paint remover followed by soap and water wash

STORAGE

- Store in a cool, dry place
- Avoid leaving in direct sunlight for prolonged periods
- Keep container closed when not in use
- **Shelf Life:** 12 months unopened at 77°F / 25°C

SPILL RESPONSE

- Keep bystanders away - floor may be slippery, be careful to avoid falls
- Contain spills immediately with inert materials (such as sand, sawdust, shavings, litter)
- Transfer liquids and solid dam material to separate containers for recovery or disposal

SAFETY CAUTIONS

Respiratory & Ventilation

- When mist is produced during spraying, wear an MSH/NIOSH approved (or equivalent) half-face dust/mist respirator
- Use with adequate ventilation
- If inhaled, move to fresh air immediately

Skin & Eye Protection

- Wear butyl rubber gloves and skin protection to avoid contact
- In case of skin contact, wash thoroughly with soap and water
- Eye protection required - do not wear contact lenses without eye protection
- If eye contact: immediately flush with water for 15 minutes, seek medical attention
- If swallowed: rinse mouth thoroughly, get immediate medical attention

Wash after use. Keep container closed when not in use.

LIMITED TIME WARRANTY

FlameOFF® Cool Roof System warrants that this coating will be free from defects and any material found to be defective will be replaced in alike quantity by the manufacturer within **10 years** from the date of purchase.

Requirements:

- Proof of purchase receipt
- Evidence that it has been applied in accordance with the instructions on this container and data sheet

This warranty is not transferable. This warranty does not cover wear and tear on the substrate, only the product itself.

FlameOFF® Coatings

info@flameoffcoatings.com | www.flameoffcoatings.com

Contact technical sales for product inquiries and large volume orders.

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