



MT-109

Thermal Coating Roofing Sealer

High-Performance Heat
Rejection & Energy-
Saving Coating



■ DESCRIPTION

MT-109 is an advanced liquid-applied thermal roof coating designed to provide outstanding heat rejection, energy efficiency, and long-term durability for hotels, resorts, commercial facilities, and residential complexes. Its brilliant white reflective finish minimizes rooftop heat absorption, effectively lowering interior building temperatures and improving comfort for occupants. Unlike conventional roofing systems, MT-109 forms a seamless, hydrophobic membrane that resists water pooling, UV degradation, and environmental stresses. By reducing air conditioning demand, it delivers direct cost savings and contributes to sustainable building performance.

■ TECHNICAL CHARACTERISTICS

MT-109 is a liquid-applied reflective thermal coating that forms a bright white, highly reflective finish upon curing. Its specialized formulation provides resistance to operating temperatures of up to 110 °C, ensuring reliable performance even under extreme heat exposure. Each coat creates a uniform wet film thickness of approximately 6 mils, which dries to a durable film of 3-4 mils. The coating has an exceptionally low thermal conductivity (lambda value), making it one of the most effective insulation-enhancing coatings available for roofing applications. Once cured, the seamless and hydrophobic membrane provides long-lasting water resistance and protects against ponding water without blistering or separation. The product cures by evaporation and can be recoated multiple times to further increase thermal resistance without adding significant weight to the roof structure. With its lightweight nature compared to conventional multi-layer roofing systems, MT-109 reduces the structural load on buildings, making it especially suitable for hotels, residential towers, and large-span commercial buildings.

■ ADVANTAGES

- Reduces rooftop temperature by up to 75 °F (24 °C).
- Lowers indoor room temperatures by 6-7 °C, improving comfort for guests and residents.
- Creates a seamless waterproof membrane with no joints or weak points.
- Hydrophobic formulation resists standing water.
- Long-lasting resistance against UV radiation and weathering.
- Lightweight system - does not stress hotel or residential building structures.
- Quick application: large roof areas can be treated in a short timeframe, minimizing disruption to hotel operations.
- Environmentally responsible: zero waste compared to traditional tear-off roofing.
- Reduces energy costs for hotels, malls, residential towers, and office complexes.

■ WHERE TO USE

- Hotels, resorts, and hospitality buildings with large roof surfaces.
 - Shopping malls, mixed-use developments, and office complexes.
 - Apartment and residential towers.
 - Public buildings, schools, and hospitals exposed to high solar loads.
 - Retrofit projects for existing facilities where quick, cost-efficient cooling solutions are needed.
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■ RECOMMENDATIONS

- Apply only on clean, dry, and stable substrates.
 - Do not apply during rain, high humidity, or on wet surfaces.
 - Ensure proper substrate preparation for optimum adhesion.
 - Apply at the recommended minimum 6 mils film thickness.
 - Protect newly coated roofs from foot traffic and cleaning until fully cured.
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■ APPLICATION PROCEDURE

Preparation

- Clean roof thoroughly; repair cracks and surface defects.
- Ensure surface is fully dry before application.

Application

1. Apply using roller, brush, or spray equipment.
2. Recommended film thickness: ~6 mils wet per coat.
3. Allow proper curing before applying additional coats..

Maintenance

- After years of service, a new coat may be applied directly over the old one to restore reflectivity and protection.
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■ CLEANING TOOLS

- Clean tools and spray equipment with water or suitable cleaning solution immediately after use. Hardened product can only be removed mechanically.
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■ CONSUMPTION / COVERAGE

- A 3-man crew can apply up to 929 m² (10,000 ft²) per day.
- Actual coverage depends on substrate texture and porosity.
- Standard requirement: ~6 mils wet film thickness.

■ PACKAGING

- Supplied in pails and drums (sizes available upon request).

■ STORAGE

- Store in sealed containers, away from direct sunlight.
- Protect from freezing.
- Shelf life: 12 months in unopened packaging.

■ SAFETY INSTRUCTIONS

- For professional use only.
- Wear gloves, goggles, and protective clothing.
- Use respirator protection when spraying.
- Avoid inhalation of vapors or mist.
- If in eyes: rinse with clean water for at least 15 minutes and seek medical help.
- If swallowed: do not induce vomiting; seek medical assistance.
- Refer to the Safety Data Sheet (SDS) for complete details.

■ TECHNICAL DATA (Typical Values)

Property	Range / Value	Notes
Type Product	coating thermal reflective applied-Liquid	-
Appearance	finish reflectivity-high ,white Bright	-
Range Temperature Operating	Up To C° 110	-
(coat per) Thickness Film Wet	mils 6-	Recommended
Thickness Film Dry	mils 4-3-	-
Conductivity Thermal	(leading-industry) low Very	insulation High
Type Membrane	resistant-water ,hydrophobic ,Seamless	-
(crew man-3 ,day per) Coverage	(ft² 10,000) m² 929-	-
Rate Application	recoatable ;coat Single	-
Mechanism Drying	Evaporation	-
Recoatability	Excellent	enhance coats 3rd/2nd performance
Impact Weight	roofing layer-multi to compared Negligible	system Lightweight
Life Shelf	(containers sealed) months 12	-
Temperature Storage	(F° 90 - F° 45) C° 32 - C° 7	freezing from Protect

■ FINAL PERFORMANCE / KEY PROPERTIES

- Temperature Reduction: Rooftop up to 75 °F (24 °C) cooler; interiors 6-7 °C cooler.
 - Energy Efficiency: Reduces air conditioning costs and demand.
 - Durability: Resistant to UV, ponding water, and weather extremes.
 - Recoatability: Easy to refresh over time without costly replacements.
 - Lightweight: No structural burden on buildings.
 - Sustainable: Zero waste solution compared to traditional roofing systems.
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■ WARNING

The details provided in this datasheet are based on laboratory testing and field results, but they are indicative only. Users must confirm suitability through on-site trials under actual project conditions. The manufacturer accepts no responsibility for misuse.

■ LEGAL NOTICE

This Technical Data Sheet (TDS) may be included in project documentation, but the latest version available at the time of application will always prevail. Alteration or modification of this content releases the manufacturer from any liability.

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