



CLIMATE-SHIELD® COOL ROOF COAT

DESCRIPTION

Climate-Shield® Roof Coats are highly efficient, energy-saving, flexible coatings, made from a water-based pure acrylic resin system filled with hollow micro-spheres. These coatings are non-toxic, friendly to the environment and form a monolithic (seamless) membrane that bridges hairline cracks. They are completely washable and resist many harsh chemicals. Climate-Shield® Roof Coats have high Solar Reflectance Index (110/99). Climate-Shield® Roof Coats keep roof surfaces much cooler in hot summer weather. They offer UV protection and low VOC's of less than 39g/L. They display excellent dirt pick-up resistance and retain their flexibility long after aging.

TYPICAL USES

Waterproofing & Cool Roof Coating.

PRIMER

No primer is usually required on mill finish metal substrates and concrete surfaces. Rusty surfaces require rust control prior to the application of the roof coats. Always check for adhesion on factory coated metal roof sheets.

SURFACE PREPARATION

All surfaces must be clean and free from laitance, dust, dirt, oil and grease. Minimally, surfaces should be power washed prior to coating, providing this will not damage the roof or cause leaks.

SPECIFIED DRY FILM THICKNESS

Flat Roof 700 μ DFT (3m² / Gallon)

Sloped Roof 300 μ (7m² / Gallon)

DRYING TIME

To set: 45 minutes, To re-coat: 12 hours, To through: 12 hours – at 24 C and 50% relative humidity. After 45 minutes, Climate-Shield® Roof Coats have surface set to the point where it is no longer susceptible to airborne dust and will not run in the presence of increase humidity. Do not apply Climate-Shield® Roof Coats if precipitation is imminent or is likely to occur before Climate-Shield® Roof Coatings are dry through, or if temperature is expected to drop below 4 Celsius.

FLEXIBILITY

Coatings remain flexible at -35 °C – Eliminate thermal-shock damage – Maintain their strength at 204 °C), Will pass 180 Deg bend at 1.11 °C after 60-month exposure.

ADHESION

Excellent adhesion to a wide variety of substrates: wood, urethane foam, galvanized steel, aluminum, asphalt roof shingles, concrete, asbestos and others.



MIXING

Stir each container thoroughly using low speed mechanical agitation to avoid air entrapment.

THINNING

None required. Clean water in small amounts (up to 1.2 Litre to a bucket) may be added to replace evaporation losses or to adjust for spray equipment configuration. Caution: excessive thinning will cause the coating to lose adhesion and elasticity.

EQUIPMENT

Roller or airless spray application is recommended. Very small areas may be brushed. When Climate-Shield® Roof Coatings are applied by brush, three (3) coats cross-brushed are required for adequate protection.

Airless Spray:

Tip Orifice	.031 inches
Atomizing Pressure	2200 – 2500 psi
Fan Spread	60 degrees
Filter	Remove filters and screens

*** Prime pump with water before attempting to spray Climate-Shield® Roof Coatings.

METHODS

To assure adequate and uniform coverage, the “spray and back roll” or the “cross spray” techniques are recommended. Climate-Shield® Roof Coatings should be applied in full wet coats.

CLEAN UP

Clean all tools and equipment with warm soapy water. Rinse with clean water; flush mineral spirits through spray equipment to prevent rusting and to lubricate packing and gaskets.

PACKAGING & SHELF LIFE

5USG (18.9L) Buckets. Minimum 2 years (keep from freezing)

PRODUCT WARRANTY

5 to 15 year extendable LIMITED WARRANTY

The sole remedy for goods not in conformance with any warranty is replacement of the product or return of purchase price. SPM Thermo-Shield INC, shall not be liable for any other damages, including but not limited to labor expenses.

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