



Eco-Cool Roof 5000
Technical Data Sheet August 2008

PRODUCT DESCRIPTION

Eco-Cool Roof 5000 is a 100% water based, Acrylic Elastomeric Coating. Eco-Cool Roof 5000 is a Low VOC exterior thermal barrier coating. Eco-Cool Roof 5000 is based on innovative ceramic and elastomeric technology that when combined exhibits enhanced weatherability and resistance to UV degradation, moisture penetration, abrasion, and solar radiant heat.

ADVANTAGES

- Low VOC Content
- Increases Energy Efficiency up to 30%
- Bridges Cracks
- Abrasion Resistant
- Mold and Mildew Resistant
- Weather Resistant
- Environmentally Friendly
- High Elongation: Will not crack, chip, flake or peel
- Solar Reflectivity and Thermal Emittance Longevity

USES

- Cool Roof Coating for Commercial Properties
- Low-Slope Roofing
- Patio Awnings and Residential Flat Roofs
- Warehousing and manufacturing facilities

PHYSICAL PROPERTIES

Colors Available	White, Pastel, Deep and Accent Colors
Finish	Flat
Vehicle Type	Acrylic Emulsion
Pigment Type	Titanium Dioxide and Select Inert Pigments
Solvent Type	Water
Solids by Weight, %	60.00
Solids by Volume, %	56.30
Weight, lbs./ gallon	9.00
Theoretical Spread Rate, per coat	140-150 sq.ft/gal.
Dry Film Thickness, per coat	5-7 Mil. DFT
Volatile Organic Compounds, g/L	<25

TYPICAL PERFORMANCE CHARACTERISTICS

Adhesion, % Removed (ASTM D-3359 - 5B)	
Wood	0
Concrete	0
Aluminum	0
Tensile strength, psi (ASTM D-638)	152
Elongation, % (ASTM D-638)	98.08
Moisture Vapor Transmission, (ASTM E-96)	1.34
Solar Reflectance Value (R), (ASTM C-1549)	84.08
Thermal Emittance Value (E), %(ASTM C-1549)	86.00
Solar Reflectance Index (SRI)	105
Salt Spray Resistance, (ASTM B-117)	
Moisture Penetration @ 500 Hours	None
Water Canon Test, 98 MPH	
Moisture Penetration @ 24 Hours	None
Flammability, (ASTM E-84-87)	Type A, Class 1
Flash Point, (ASTM D-1310)	>212°F
Fungal Resistance (ASTM D-5590-00)	1

APPLICATION RECOMMENDATIONS

Surface Preparation: The roof's surface must be clean and free from dirt, grease, scale, efflorescence, mildew, fungus, loose impediments and all other surface contaminants. Pressure washing, sandblasting, sanding, scraping or any other manner, which thoroughly cleans the surface and removes any possible contaminants, which may impair adhesion, should clean all substrates. Proper cleaning techniques are recommended to achieve proper application, maximum adhesion, and best results.

Application: Apply by brush, lint free roller applicator of suitable nap length (20mm+nap or split foam pile), or airless sprayer. Note: if using airless sprayer, use a tip orifice of at least .19" or .21" to achieve recommended dry film thickness. Do not apply if temperatures exceed 95°F or fall below 40°F.

Additional Info: Keep from freezing. Stir thoroughly prior to use and every 15 minutes during application. Boxing is recommended to maintain uniform tinting.