FLEX® WHITE

Radiation Control Coating
Fluid Applied Roof System

APPLICATION SPECIFICATIONS

***FLEX*® WHITE is a radiation control coating designed to keep the roof, ceiling and building up to 20% cooler than other roofing systems. In addition, substrate materials, insulation and structural members are protected from excessive heat, expansion, contraction, cracking, ultraviolet and solar radiation.**

Polyester cloth fabric reinforcement provides tensile strength to all joints and flashings, as well as on the entire surface when specified. Roofs are made watertight by multiple layers of *FLEX*® BLACK Modified Elastomeric Emulsion and high strength polyester or *FLEX*® WHITE and polyester. The substrate is usually metal, plywood, concrete, Polyurethane foam or heavy base felt.

***FLEX*® BLACK and polyester combination, as well as existing roofing materials, are protected by *FLEX*® WHITE heat reflective top coats.**

***FLEX*® WHITE reflects 85%+ of the sun's solar heat, unlike aluminum or silver coatings which reflect mainly specular or "light reflection." The application of *FLEX*® WHITE can give an equivalent of R-32 insulation in heat reflectivity, with an ambient air temperature of 85°F, with a solar reflectivity of 85%.**
(Contact Corporate Headquarters for documentation.)
Note: This test data showed an equivalency to a R-32 insulation in heat reflectivity and not an actual insulating R-value. Polyurethane, polyisocianurate, or other insulations must be incorporated into the roofing system for colder climates.

The *FLEX*® ROOFING SYSTEM is a lightweight, durable, energy-efficient, monolithic (seamless) reinforced membrane, completely secured to its base and to the flashings, drains, and protrusions.

***FLEX*® WHITE dries to a moderately hard, yet flexible finish that withstands normal foot traffic as well as being resistant to pollutants from air, algae, ponding water and sun degradation.**

Costs are comparable to conventional systems, while overall costs are about 50% less, and in many cases even lower, due to savings in energy, maintenance, and replacement. In warm climates the cost of installation of a *FLEX*® ROOFING SYSTEM will pay for itself in the reduction of air conditioning costs alone.

The use of polyester fabric reinforcement over the entire surface of the roof is strongly recommended.

FLEX® WHITE

Reflective Acrylic Elastomer Roof Coating

- Technical Data -

FLEX® **is a water-base, flexible acrylic coating. High reflectivity combined with good weather-ability, ultraviolet & dirt pick-up resistance, adhesion and ease of application makes *FLEX*® an effective coating for providing long-term reflectivity over a wide range of roofing substrates.**

BASIC USES

FLEX® **was especially developed for extending the life of new or existing built-up, metal, concrete, shingle and asphalt roofs by providing a white reflective topcoat. The high reflectivity of *FLEX*® keeps the roof substrate cool, which not only prolongs its longevity, but saves on energy costs. *FLEX*®'s rich consistency uniformly covers the textured profile of various substrates, forming a permanently flexible monolithic membrane, providing protection from normal weathering, aging and ultraviolet exposure.**

1.	Solids by Weight: 69%-72% ASTM D1475	9.	Shelf Life: 2 years
2.	Solids by Volume: 58%-62% calculated	10.	Weight per Gallon: 12.5 pounds
3.	Tensile Strength: 330 psi (+20) (1.66 MPa) ASTM D 412	11.	Fire Rating: Class "A"-Warnock Hersey (10/27-30/89 *WHI-495) R-0527 (ASTM D 93-85)
4.	Elongation: 300% @ 75°F (24°C) ASTM D 412	12.	Flash Point: No flash point
5.	Hardness: 80.2 Shore A (ASTM D 2240)	13.	Solar Reflectance: 85%
6.	Permeability: 0.04 Perm. Inches ASTM E 398	14.	Resistance to Ponded Water: No blister, no film degradation.
7.	Low Temp. Flexibility: Passes 180° flex over 1/8" mandrel @-20°F Federal Test Method No. 141 a-6221	15.	Alkali Resistance: No effect.
8.	Type of Resin: 100% acrylic latex	16.	Freeze/Thaw Resistance: Pass 5 cycles