



4100

ALIPHATIC POLYURETHANE

TYPICAL PHYSICAL PROPERTIES

TOTAL SOLIDS: 77% by weight ASTM D1644
68% by volume ASTM D2697

WEIGHT PER GALLON: 8.5 lb per gallon ±
0.2

FLASH POINT: 93°F

SHELF LIFE: 90 DAYS @ 40°- 90° F

CLEAN UP: Xylene

VISCOSITY: 3,000 ± 1,000 cP

ELONGATION: 350% ± 50

HARDNESS: 69 Shore A

TENSILE STRENGTH: 600 psi ± 50

PERMEABILITY: 0.02 perm inch

SERVICE TEMPERATURE: -50° - 200°F

WATER ABSORPTION: 1.6%

ADHESION: Exceeds Tensile

CURE TIMES:

Dry to touch: 6 hours

Tack Free: 12 – 16 hours

Recoat: 12 – 16 hours

SOLAR REFLECTANCE: 86%

THERMAL EMITTANCE: 89%

PRODUCT DESCRIPTION

4100 ALIPHATIC POLYURETHANE is a technologically advanced, high solids, single component, moisture cure, bright white polyurethane elastomer coating uniquely formulated as a finish coat over **4102** Polyurethane in low slope roof restoration projects. Once cured this liquid applied moisture-curing polymer provides a durable, seamless, flexible, waterproof membrane that resists lateral movement, shear and will allow for normal expansion and contraction. Mil for mil, **4100** provides greater UV protection than similar aliphatic polyurethanes and offers increased resistance to moisture penetration through its lower moisture vapor permeability values. Due to its moisture-cure properties, a longer production window can be achieved during application versus water based acrylic coatings.

RECOMMENDED USES

4100 was Specifically developed as a bright white protective top coat over a base coat of **4102** for EPDM, TPO, PVC, modified bitumen and SPF roof systems. With excellent color retention and high durability, **4100** is used for protection, waterproofing, solar reflectivity and service life extension of these low slope conventional roof systems.

GENERAL SURFACE PREP AND APPLICATION INSTRUCTIONS

4100 may be applied by medium nap rollers, soft brushes or conventional airless spray equipment. Apply **4100** only to clean, dry, sound coating surfaces free of loose particles or other foreign matter. Successive and/or top coats **MUST** be applied to the base or intermediate coats within 48 hours to insure proper adhesion. Apply **4100** at the rate of 1.25 gallon per 100 sq. ft. per coat. Minimum dry mil thickness shall be 25 mils. Do not apply if ambient temperature falls below 50° F. **PRODUCT APPLICATION SHOULD BE SUSPENDED IMMEDIATELY AND OUR TECHNICAL SERVICE PERSONNEL CONTACTED IF THE RESULTS BEING OBTAINED ARE LESS THAN DESIRABLE.**

LIMITATIONS AND PRECAUTIONS

AVOID MOISTURE CONTAMINATION IN SEALED CONTAINERS. Store in a dry environment at temperatures between 40°F - 85°F. **KEEP AWAY FROM HEAT, OPEN FLAME OR SPARKS. USE ONLY IN WELL VENTILATED AREAS WITH PROPER PROTECTIVE EQUIPMENT.** Avoid breathing vapor or mist.