



# 4102

## POLYURETHANE ALUMINUM

### TYPICAL PHYSICAL PROPERTIES

**TOTAL SOLIDS:** 79% by weight ASTM D1644  
68% by volume ASTM D2697

**WEIGHT PER GALLON:** 9.0 lbs per gallon ± 0.2

**FLASH POINT:** 80°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:** 1000 psi ± 50

**PERMEABILITY:** 0.02 perm inch

**SERVICE TEMPERATURE:** -50° - 200°F

**WATER ABSORPTION:** 2.4%

**ADHESION:** Exceeds Tensile

**CURE TIMES:**

- Dry to touch: 6 hours
- Tack Free: 8 – 12 hours
- Recoat: 12 – 16 hours

### PRODUCT DESCRIPTION

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**4102 POLYURETHANE ALUMINUM** is a technologically advanced, high solids, single component, moisture cure polyurethane elastomer coating uniquely formulated for the protection of low slope roofing systems including EPDM, TPO, PVC, Mod. Bit. and BUR surfaces. 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, **4102** provides a greater adhesion and increased protection than similar polyurethane coatings. This product also 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 than acrylic coatings.

### RECOMMENDED USES

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**4102** was specifically developed as a protective coating (base and finish coat) for sprayed-in-place polyurethane foam roofing. With excellent adhesion, **4102** may be used as a base coat for protection of conventional commercial/industrial surfaces such as, but not limited to: TPO and EPDM single-ply membranes, Mod. Bit., smooth BUR and the lining and sealing of interior gutter systems.

### GENERAL SURFACE PREP AND APPLICATION INSTRUCTIONS

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**4102** may be applied by medium nap rollers, soft brushes or conventional airless spray equipment. Prior to product application, pressure wash all surfaces to remove all dirt and debris that may impede adhesion. Apply **4102** only to clean, dry, sound 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 **4102** at the minimum rate of 1.25 gallon per 100sq<sup>2</sup> per coat. Minimum dry mil thickness shall be 12.5 DFT for the base coat and 12.5 DFT for the top coat. 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.**

### STORAGE AND HANDLING

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AVOID MOISTURE CONTAMINATION IN SEALED CONTAINERS. **4102** is a moisture cure chemistry that is sensitive to moisture contamination and exposure to heat and direct sunlight. Store in an interior, dry environment at temperatures between 40°F – 80°F. Avoid container exposure to water. Refer to the SDS for more health and safety information.