



# Environmentally Safe Polymers, Inc.

## Technical Data

Updated 11/2004

### **POLYROOF #74 ALUMINUM SINGLE COMPONENT POLYUREA URETHANE ROOF COATING**

#### **PRODUCT DESCRIPTION AND USAGE:**

PolyRoof #74 is a single component, environmentally safe, moisture cured polyurea urethane coating. PolyRoof #74 was specifically developed for use as a protective coating system over polyurethane foam, metal roofing and EPDM Single Ply to provide weather protection and waterproofing.

#### **COLOR:**

Aluminum

#### **PHYSICAL PROPERTIES**

#### **TENSILE:**

ASTM D-412

Strength: 1400 psi min.

Elongation: 300% min.

Permanent Set: 10% max.

#### **HARDNESS:**

ASTM D-676 Shore A 80 ± 5

#### **TEAR RESISTANCE:**

ASTM D-624 Die C 150 pli

#### **WATER VAPOR PERMEABILITY:**

ASTM E-96 Procedure B

100% R.H. Difference 0.02 Perm In.

#### **WEATHERABILITY:**

Excellent

#### **CHEMICAL RESISTANCE:**

Good salt and solvent resistance. Fair resistance to acid and alkali.

#### **FLAMMABILITY:**

Not rated.

#### **ADHESION:**

Excellent adhesion to polyurethane foam, concrete and wood. See primer recommendation for other substrates.

#### **LIQUID PROPERTIES**

#### **COVERAGE:**

Sq. Ft./Gal./Mil 1130

#### **SOLIDS:**

Weight: 78.9% ± 0.5%

Volume: 70.5% ± 0.5%

#### **V.O.C.:**

Contains less than 235 grams/liter

#### **FLASH POINT:**

ASTM D-56 105°F

#### **TOXICITY:**

Contains MDI isocyanate and combustible solvents. The TLV for the solvent is 200 parts per million. Provide adequate ventilation when applied in confined areas or use an air supplied face mask. The solvents and isocyanate may be irritating to the skin. Neutralize any material contacting the skin by washing with water for 10-15 minutes.

#### **STORAGE STABILITY:**

One year from date of manufacture when stored in unopened containers below 75°F.

#### **THINNER AND CLEANER:**

Clean with Toluene, Xylene, or Hi-Flash Naphtha. Thin up to 20% with High Flash Naphtha or up to 10% with Mineral Spirits.

#### **APPLICATION**

Mix PolyRoof #74 before application to assure uniform color and consistency. PolyRoof #74 can be applied by brush, roller or spray. Thinning up to one pint per gallon is allowed if viscosity increases. For spray applications, thinning is not recommended. No primer is required for wood or concrete. Use PolyPrime #01, #06 or #07 primers on steel. Use PolyPrime #07 on copper and glass. Use PolyPrime #08 on EPDM Single Ply. PolyRoof #74 will cure in 36 hours at 60°F and 40% relative humidity. Lower temperatures and humidity will require longer curing times.

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Our data is based on information from lab and field testing which we believe to be reliable and accurate. Environmentally Safe Polymers, Inc. makes no warranties, expressed or implied of the products use or its results, and assumes no obligation or liability in connection therewith.