



Environmentally Safe Polymers, Inc.

Technical Data

Updated 11/2004

POLYROOF #70 ACRYLIC ELASTOMER ROOF COATING

PRODUCT DESCRIPTION AND USAGE:

PolyRoof #70 is a water based, acrylic elastomer roof coating characterized by excellent hardness, strength, water resistance, soil resistance, weatherability and fast dry. PolyRoof #70 was specifically developed as a protective coating system for polyurethane foam, concrete, plywood or metal roofs with positive drainage.

LIMITATIONS:

Do not apply to interior urethane foam or where service conditions are below 0°F. Do not apply on surfaces subjected to prolonged water soak.

COLOR:

White or Gray.

PHYSICAL PROPERTIES

HARDNESS:

ASTM D-2240

Shore A 70-75

TEAR RESISTANCE:

ASTM D-642

Die C 120 pli minimum

TENSILE:

ASTM D-412

Strength: 400 psi minimum

Elongation: 200% minimum

Permanent Set: 10% maximum

WATER VAPOR PERMEABILITY:

ASTM E-96 Procedure B

100% R.H. Difference R.T 0.06 Perm In.

WEATHERABILITY:

Excellent

FLAMMABILITY:

Not rated.

ADHESION:

Good adhesion to polyurethane foam, masonry, concrete and wood. PolyRoof #70 also has excellent adhesion to most organic coatings with the exception of silicones and fluorocarbons. A primer must be used on ferrous metals to prevent corrosion. Contact E.S.P., Inc. for specific recommendations.

LIQUID PROPERTIES

COVERAGE:

Sq.Ft./Gal./Mil 965

SOLIDS:

Weight: Method 4041 73.6%

Fed. Std. 141

Volume:

60.1%

V.O.C.:

Contains less than 25 grams/liter

FLASH POINT:

ASTM D-1310

Above 200°F T.O.C.

STORAGE STABILITY:

Twelve months. Protect from freezing. Freezing temperature 30°F.

THINNING:

Thinning is not recommended under normal conditions. When desired, PolyRoof #70 may be thinned up to 5% with water. Thinning causes reduction in film build and vertical hold properties.

APPLICATION

Apply by spray, roller or brush. A wide range of spray equipment can be used including airless spray or conventional spray. When applying PolyRoof #70 in hot weather, coating may thicken in idle spray hoses due to the resulting high temperatures. It is recommended that hoses be flushed with water at the end of the day to avoid potential problems such as, coating build-up in hoses, poor spray pattern or plugging. Clean up with water supplemented with liquid detergent. Spray equipment should be given a final cleaning with MEK thinner or lacquer thinner to remove moisture, and prevent possible corrosion. PolyRoof #70 is water based and will require the complete evaporation of the water to achieve cure. Do not apply to surfaces that are or will be lower than 50°F within 12 hours.

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.