Environmentally Safe Polymers, Inc.

Technical Data

Updated 11/2004

POLYWALL #100
ACRYLIC ELASTOMER WALL COATING

PRODUCT DESCRIPTION AND USAGE:
PolyWall #100 is a water based, acrylic elastomer wall coating characterized by excellent hardness, strength, water resistance, soil resistance, weatherability and fast dry. PolyWall #100 was specifically developed as a protective coating system for interior and exterior concrete and masonry walls.

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 masonry, concrete and wood. PolyWall #100 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 (TOC)

STORAGE STABILITY:
Twelve months. Protect from freezing. Freezing temperature - 30°F.

THINNING:
Thinning is not recommended under normal conditions. When desired, PolyWall #100 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 PolyWall #100 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. PolyWall #100 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.

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