



Environmentally Safe Polymers, Inc.

Technical Data

Updated 11/2004

POLYROOF #76 POLYUREA HYBRID ROOFING POLYMER

PRODUCT DESCRIPTION AND USAGE:

PolyRoof #76 is a 100% solids, plural component, one to one by volume, polyurea-urethane hybrid. PolyRoof #76 was specifically developed for use as a general purpose, spray applied protective coating for waterproofing metal, concrete and built-up roofs and for protection of polyurethane spray foam.

COLOR:

Black and gray. Contact your E.S.P. Representative for other colors.

PHYSICAL PROPERTIES

CHEMICAL RESISTANCE:

Good hydrolytic stability to 180°F. Good resistance to inorganic bases, acids, and hydrocarbon solvents.

TENSILE:

ASTM D-412
Strength: 2000 psi
Elongation: 350%
Permanent Set: 10% maximum

HARDNESS:

ASTM D-2240
Shore A 70-75

TEAR RESISTANCE:

ASTM D-624
Die C 125 pli

ABRASION RESISTANCE:

Excellent.

PERMEABILITY:

ASTM E-96
Method BW .03 perm inches

LIQUID PROPERTIES

SOLIDS:

Weight: 100%
Volume: 100%

VISCOSITY:

Poly Component: 550 ± 75 cps @ 77°F.
Iso Component: 400 ± 50 cps @ 77°F.

DENSITY:

Poly Component: 8.4-9.0 lbs./gal. (S.G. 1.03-1.14)
Depending upon color.
Iso component: 9.16 lbs./gal. (S.G. 1.11)

V.O.C.:

Conforms to all Air Pollution regulations. Contains no Volatile Organic Compounds.

FLASH POINT:

ASTM D-56 (TCC) Greater than 200°F.

TOXICITY:

Iso component contains polymeric isocyanate requiring fresh air supply respirator, gloves, and protective clothing during application.

STORAGE STABILITY:

One year in unopened containers @ 50-90°F.

APPLICATION

MIX RATIO:

1:1 by volume.

REACTIVITY:

Tack free time is 15-40 seconds when sprayed with hot plural component airless spray equipment.

CURE TIME:

Applied coating will set in 3-15 minutes at 70°F, depending on film thickness and substrate temperature. Product can be placed into service after four hours of cure time at 70°F minimum.

EQUIPMENT:

Plural component spray equipment capable of maintaining temperature of 130-140°F and 1000 psi minimum pressure. Contact Environmentally Safe Polymers, Inc. for specific instructions and spray equipment needed.

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.