Environmentally Safe Polymers, Inc.

Technical Data

Updated 11/2004

POLYLINER #66
POLYUREA HYBRID LINING POLYMER

PRODUCT DESCRIPTION AND USAGE:
PolyLiner #66 is a 100% solids, plural component, one to one by volume, polyurea-urethane hybrid. PolyLiner #66 was specifically developed for use as a general purpose, spray applied protective lining system for secondary containment and below grade applications.

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

PHYSICAL PROPERTIES

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.

CHEMICAL RESISTANCE:
Good hydrolytic stability to 180°F.
See E.S.P. Chemical Resistance Chart.

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 at 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.

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