



# Environmentally Safe Polymers, Inc.

## Technical Data

Updated 11/2004

### **POLYWALL #106 POLYUREA HYBRID WALL POLYMER**

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

PolyWall #106 is a 100% solids, plural component, one to one by volume, polyurea urethane hybrid. PolyWall #106 was specifically developed for use as a general purpose, spray applied protective polymer for waterproofing interior or exterior metal and concrete walls.

#### **COLOR:**

White or Black. 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.

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