



# Environmentally Safe Polymers, Inc.

## Technical Data

Updated 11/2004

### **POLYTRUCK #96 MULTI PURPOSE SPRAY TRUCK BED POLYMER**

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

PolyTruck #96 is 100% solids, two component, fluid applied, polyurea urethane hybrid polymer primarily used for lining the interior of truck beds in order to provide corrosion protection, resistance to abrasion, skid resistance and to improve appearance. Where improved slip is needed, it is also possible to apply a smooth non-textured surface to enhance ease of loading and unloading trucks.

#### **COLOR:**

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

#### **PHYSICAL PROPERTIES**

#### **CHEMICAL RESISTANCE:**

Good resistance to inorganic bases, acids and hydrocarbon solvents. Fair resistance to oxygenated and chlorinated solvents. Good resistance to hot water up to 180° F.

#### **TENSILE:**

ASTM D-412  
Strength: 3200 psi  
Elongation: 175%  
Permanent Set: 10% maximum

#### **HARDNESS:**

ASTM D-2240  
Shore A 93  
Shore D 50

#### **TEAR RESISTANCE:**

ASTM D-624  
Die C 350 pli

#### **ABRASION RESISTANCE:**

Excellent

#### **LIQUID PROPERTIES**

#### **SOLIDS:**

Weight: 100%  
Volume: 100%

#### **VISCOSITY:**

Poly Component: 400-550 cps @ 77° F.  
Iso Component: 400-550 cps @ 77° F.

#### **DENSITY:**

Poly Component: 1.025  
Iso Component: 1.14

#### **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:**

12 months in unopened containers at 50-90°F.

#### **APPLICATION**

Thoroughly mix the colored component in order to re-suspend any pigment that may have settled out. Apply, using hot airless spray equipment capable of producing 1000 psi, and maintaining an application temperature of 120-130° F. The mixing ratio shall be maintained within 0.95 to 1.1 volume of isocyanate to 1 volume of polyol. Impingement mixing, air purge spray guns are suggested for ease of application. PolyTruck #96 gels in 2-5 seconds and cures to handle in 10-30 seconds when applied using hot airless spray equipment. Allow 1 to 4 hours for complete cure before placing coated items into service. Other variations of PolyTruck #96 include the same polymer system supplied with a mixing ratio of 1 volume isocyanate component to 2 of polyol. A slightly softer version with a 40 Shore D hardness is also available. Other properties that can be enhanced include anti-static properties and low coefficient of friction additives to aid in unloading bulk material and enhance wear properties. Please contact your E.S.P. Representative for additional information.

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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.