



# Environmentally Safe Polymers, Inc.

## Technical Data

Updated 11/2004

### **POLYPRIME #05 WATERBORNE URETHANE BONDING PRIMER**

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

PolyPrime #05 is a single component polyurethane dispersion specifically designed for difficult to adhere to plastic materials. These include flexible poly vinyl chloride (PVC) films, other flexible vinyl polymers, Hypalon rubber and numerous other plastic substrates. PolyPrime #05 does not bond to silicones, EPDM rubber, polyethylene, polypropylene and fluorocarbon materials

#### **COLOR:**

Subdued yellow.

#### **CONSISTENCY:**

A slightly gelatinous fluid.

#### **PHYSICAL PROPERTIES**

#### **WEATHERABILITY:**

The primary usage is as a primer, however weatherability is excellent.

#### **CHEMICAL RESISTANCE:**

Good solvent, acid and alkali resistance.

#### **WATER VAPOR PERMEABILITY:**

PolyPrime #05 has a high water vapor permeability even though it is usually applied as a thin film.

#### **FLAMMABILITY:**

Non-flammable.

#### **TOXICITY:**

Not for use with edible substances or potable water.

#### **ADHESION:**

Excellent adhesion to most plastics. Does not adhere to low surface energy materials such as silicones, fluorocarbons, polyethylene and polypropylene.

#### **LIQUID PROPERTIES**

#### **COVERAGE:**

Normally used on non-absorbent surfaces and applied at a spreading rate of 250-400 square feet per U.S. gallon.

#### **SOLIDS:**

Weight: 25.0%  
Volume: 19.8%

#### **FLASH POINT:**

Above 200°F T.O.C.

#### **STORAGE STABILITY:**

One year. Protect from freezing in shipment and storage.

#### **THINNING:**

Not recommended.

#### **MIXING INSTRUCTIONS:**

Mix thoroughly before using. Slight separation tends to occur during storage.

#### **APPLICATION**

New vinyl films may have wax, oil or mold release on the surface. It is necessary to solvent wipe contaminated surfaces in order to achieve good adhesion. Weathered surfaces need to be detergent washed before priming. Apply primer by brush, roller or felt pad, taking care to completely wet the substrate. Primer should not be applied at temperatures below 50°F or during periods of high humidity. Primed surfaces may be recoated when dry to touch however, ultimate adhesion to the substrate may require several days to develop.

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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.