Environmentally Safe Polymers, Inc.

Technical Data

Updated 11/2004

POLYPRIME #04
WATER BASED GENERAL PURPOSE PRIMER

PRODUCT DESCRIPTION AND USAGE:
PolyPrime #04 is a waterborne, single component primer characterized by excellent recoatability, good corrosion resistance and good adhesion to a variety of substrates. PolyPrime #04 may be used for the following applications:

- Priming of steel and galvanized steel surfaces.
- Priming of concrete and masonry.
- Priming over previously painted surfaces.

LIMITATIONS:
Do not apply to surfaces subjected to prolonged water soak. Do not apply when the surface being primed is below 40°F or above 120°F. Do not apply to untreated aluminum.

COLOR:
Gray. Other colors available upon special request.

PHYSICAL PROPERTIES

WEATHERABILITY:
Good. However, this product is not intended for use as a top coat.

CHEMICAL RESISTANCE:
Good acid, alkali and salt resistance. Contains corrosion inhibiting pigments.

WATER VAPOR PERMEABILITY:
PolyPrime #04 forms a breathable film.

FLAMMABILITY:
Non-flammable.

TOXICITY:

Not for use with edible substances or potable water.

ADHESION:
Good adhesion to steel, galvanized steel, concrete and masonry. Poor adhesion to aluminum. For aluminum PolyPrime #01 or PolyPrime #06 Primers. For copper use PolyPrime #07 Primer.

LIQUID PROPERTIES

COVERAGE:
Coverage will vary between 200 and 350 square feet per gallon depending upon substrate porosity.

SOLIDS:
Weight: 58.0%
Volume: 43.8%

FLASH POINT:
Above 200°F T.O.C.

V.O.C.:
Contains less than 25 grams per liter.

STORAGE STABILITY:
Twelve months. Protect from freezing temperatures below 30°F.

THINNING:
Normally not required.

APPLICATION

Apply by spray, roller or brush. A wide range of spray equipment can be used including airless or conventional. When applying PolyPrime #04 in hot weather, coating may thicken in idle spray hoses due to the resulting high temperatures. It is recommended that hoses be flushed with water at the end of the day to avoid potential problems such as, coating build-up in hoses, poor spray pattern or blockage. Clean up with water supplemented with liquid detergent. Spray equipment should be given a final cleaning with MEK thinner or lacquer thinner to remove moisture and prevent possible corrosion. PolyPrime #04 is water based and will require the complete evaporation of the water to achieve cure. Do not apply to surfaces that are or will be, lower than 40°F within 12 hours.

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