



Environmentally Safe Polymers, Inc.

Technical Data

Updated 11/2004

POLYWALL #104 SINGLE COMPONENT URETHANE WALL COATING

PRODUCT DESCRIPTION AND USAGE:

PolyWall #104 is an environmentally safe, moisture cured urethane coating. PolyWall #104 was specifically developed for use as a spray applied polymer for the protection and waterproofing of interior and exterior metal and concrete walls.

COLOR:

Black or dark gray. Contact your E.S.P. Representative for other colors.

PHYSICAL PROPERTIES

TENSILE PROPERTIES:

ASTM D-412
Strength: 1800 psi minimum
Elongation: 500% minimum
Permanent Set: 10% maximum

HARDNESS:

ASTM D-676
Shore A 60±3

TEAR RESISTANCE:

ASTM D-624 Die C 250 pli

WATER VAPOR PERMEABILITY:

ASTM E-96 procedure B.
100% R.H. Difference R.T. 0.02 Perm In.

WEATHERABILITY:

Excellent

CHEMICAL RESISTANCE:

Good salt and solvent resistance. Fair resistance to acid and alkali.

FLAMMABILITY:

Not rated.

ADHESION:

Excellent adhesion to polyurethane foam, concrete and wood. See primer recommendation for other substrates.

LIQUID PROPERTIES

COVERAGE:

1330 mil square feet per gallon.

SOLIDS:

Weight: 78.9% ± 0.5%
Volume: 70.5% ± 0.5%

V.O.C.:

Contains less than 235 grams/liter

FLASH POINT:

ASTM D-56 105°F

TOXICITY:

Contains MDI isocyanate and combustible solvents. The TLV for the solvent is 200 parts per million. Provide adequate ventilation when applied in confined areas or use an air supplied face mask. The solvents and isocyanate may be irritating to the skin. Neutralize any material contacting the skin by washing with water for 10-15 minutes.

STORAGE STABILITY:

One year from date of manufacture when stored in unopened containers below 75°F.

THINNER AND CLEANER:

Clean with Toluene, Xylene, or Hi-Flash Naphtha. Thin up to 20% with High Flash Naphtha or up to 10% with Mineral Spirits.

APPLICATION

EQUIPMENT:

Mix PolyWall #104 before application to assure uniform color and consistency. PolyWall #104 can be applied by brush, roller or spray. Thinning up to 10% by volume is allowed if viscosity increases. For spray applications, thinning is not recommended.

PRIMER:

No primer is required on concrete. Use PolyPrime #01 or #06 primers on steel. Use PolyPrime #07 on copper and glass. Please contact Environmentally Safe Polymers, Inc. for specific recommendations.

CURE TIME:

PolyWall #104 will cure in 24 hours at 60°F and 40% relative humidity. Lower temperatures and humidity will require longer curing times.

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.