



Environmentally Safe Polymers, Inc.

Technical Data

Updated 11/2004

POLYSTEEL#89AC SEMI-GLOSS ACRYLIC LATEX COATING

PRODUCT DESCRIPTION AND USAGE:

PolySteel #89AC is an acrylic latex based, semi-gloss, elastomeric coating characterized by high tensile-elongation properties, excellent breathability, water resistance and adhesion to a variety of substrates. PolySteel #89AC was specifically developed for use as protective, weather resistant, U.V. color stable top coat over aromatic polyureas and polyurea hybrids. May be used in areas where explosion hazards preclude the use of solvent based waterproofing membranes.

COLOR:

Standard color for PolySteel #89AC is white. Custom colors are also available. Please contact E.S.P., Inc. for more information on custom colors.

PHYSICAL PROPERTIES

WEATHERABILITY:

Excellent color stability, gloss retention and chalk resistance.

TENSILE:

ASTM D-412	Strength:	1500 psi
	Elongation:	300%
	Permanent Set:	25% max.

HARDNESS:

ASTM D-2240	Shore A	85
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TEAR RESISTANCE:

ASTM D-624	Die C	250 pli
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WATER VAPOR PERMEABILITY:

ASTM E-96 Method B		
100% R.H. Difference		0.06 perm In.

TOXICITY:

There are no known toxic exposure elements in the cured film.

ADHESION:

Generally excellent to most surfaces.

LIQUID PROPERTIES

COVERAGE:

Sq. Ft./Gal./Mil	716
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SOLIDS:

Method 4041, Fed. Std. 141	
Weight:	54.3 ± 1%
Volume:	44.7 ± 1%

VOLATILE ORGANIC COMPOUNDS:

Meets air pollution control requirements including California Air Resources Board Regulation 1113. Volatile organic compounds content is 85 grams per liter.

FLASH POINT:

Above 200°F T.O.C.

STORAGE STABILITY:

Two years in unopened original containers @ 40-90°F. Protect from freezing. Freezing temperature is 29°F. If frozen, thaw at 40° to 80°F. When melted to a smooth homogeneous condition, it is equal to original material. Do not allow material or surface of container to exceed 100°F or gelation may occur.

THINNING:

PolySteel #89AC is supplied at high viscosity to permit application of up to 1.5 gallons per 100 sq. ft. in a single coat to yield a 10 dry mil film thickness. Thinning by 10-15% will provide a coating for thin film applications.

APPLICATION

Apply by spray, roller or brush. A wide range of spray equipment can be used including airless spray or conventional air atomizing spray. For specific applications, contact Environmentally Safe Polymers, Inc. Clean up with water supplemented with liquid detergent. Spray equipment should be given a final cleaning with M.E.K. or lacquer thinner to remove moisture and prevent possible corrosion. PolySteel #89AC is a water based system and will require the complete evaporation of the water to achieve cure. **DO NOT** apply to surfaces that are, or will be lower than, 50°F within 12 hours.

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.