



## Elastomeric Roofing Systems, Inc

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### Primer Surfacer

#### Product Data Specification

#### TYPICAL PHYSICAL PROPERTIES

Solids (Volume)	51%
Solids (Weight)	61%
Viscosity	60-65 KU 350 cps
Weight/Gallon	8.8 lbs.
Storage Life	6 months
Flash Point	83° F.
Dry Time: 75°F and 45% RH	
Set to Touch	30 minutes
Surface Dry	1 ½ - 2 hours
Dry Hard	4-5 hours
VOC	4.2 lb/gal

#### DESCRIPTION

Primer Surfacer is a single component, aluminum pigmented, moisture-cure urethane primer for rusty surfaces. This coating offers excellent corrosion resistance when used by itself or top coated with Erathane 300 or other approved finish coating.

#### USES

Uses include applications over marginally prepared metal substrates where hand and power tool cleaning of rust is specified. Because of its low viscosity, it penetrates porous, tightly bonded rust. It also adheres to many previously applied coatings that are weathered but sound.

#### COLORS

Primer Surfacer is available in aluminum gray.

#### PACKAGING

Packaging is standard in 5 gallon pails and 55 gallon drums.

#### APPLICATION EQUIPMENT

Application may be by brush, roller or airless spray.

**Brush or Roller:** Recommended for small areas or where over-spray may be a problem. Use a fine bristle brush or medium nap solvent resistant roller.

**Airless Spray Equipment:** Airless spray equipment

should be capable of producing a material output of 3/4 gallon per minute at 3,000 psi. Primer Surfacer is designated a medium elastomeric coating with a low viscosity for pump purposes. 3/8" to 1/2" high pressure hoses perform well. The spray gun should be fitted with a .013" - .018" nozzle - reverse-a-clean. Exact orifice size will vary with temperature and material requirements.

#### PREPARATION

Ferrous substrates must be prepared properly for maximum corrosion protection and long service life. All loose rust must be removed by power washing, wire brushing or sand blasting. Welded seams, weld spatter and lap and butt joints of structural or heavy gauge steel, require special attention because of the rough, irregular profiles which are difficult to coat. To prepare these areas, chip off all flux, weld, spatter, or laminations left from welding. All mill scale, rust, etc. should be removed by wire brushing or blast cleaning to obtain an approximate 2 mil. anchor pattern.

New steel and aluminum surfaces should be cleaned or brushed to a 2 mil. profile to achieve maximum adhesion.

New galvanized or galvalume steel must be cleaned to remove any rolling oils or grease before application of primer-surfacer.

Non-ferrous substrates should be wire brushed to remove all loose coatings, rust, scale, or other contaminants.

Prior to coating, wipe clean with a recommended clean-up solvent.

Existing coatings must be tested to determine compatibility and intercoat adhesion. Apply a test area of 6 - 12 sq. inches of Primer Surfacer, embed PolySoft II leaving a fabric tail exposed and allow to cure. A 90° pull on the fabric tail will provide an

indication of adhesion.

### **APPLICATION**

Surface must be properly prepared, clean, and dry prior to applying Primer Surfacer. Best application will be achieved when the air temperature is 35° F. or higher and rising, and when the ambient temperature exceeds the dew point by at least 5° F. Apply 1/4 to 1/2 gallon per SQ (4 to 8 wet mils) of Primer Surfacer to obtain a 2 - 4 dry mil film. General light rust will be sufficiently sealed with a uniform 2 - 4 mil film. If rust is quite deeply pitted to produce a rough irregular surface two applications of 1/2 gallon per SQ is recommended, with the first coat being back rolled if applied by airless spray. Primer Surfacer should be stirred prior to use, to insure a uniform mixture. Application of Primer Surfacer with spray equipment may require some masking and possible erection of wind screens to prevent overspray and drift damage. Do not apply Primer Surfacer over Silicone Coatings or Silicone caulks. Do not apply over asphalt coatings, plastic roof cement, coal tar coatings, etc.

### **CURING AND RE-COAT TIME**

Primer Surfacer must be recoated within 48 hours of application. At 75°F and 45% R.H. Primer Surfacer will be sufficiently cured to accept a recoat of Primer Surfacer or a finish coat in 1 - 3 hours. Longer time must be allowed during colder temperature applications. Prior to top coating with Erathane 300, make sure Primer Surfacer is cured and dry.

### **TEMPERATURE CONSTRAINTS**

For application temperatures below 40°F., consult ERSystems Technical Service Department.

Curing is affected by reacting with atmospheric moisture. Solvents evaporate from the film as the primer dries. The lower the temperature, the slower the cure cycle. ERSystems Primer Surfacer may be applied at temperatures as low as 10° F. The substrate temperature range for application is 40°F – 120°F.

### **CLEAN-UP**

Upon completion of the application, tools, hoses and equipment must be cleaned immediately with xylene (xylol) solvent.

### **LIMITATION**

Primer Surfacer cures by reacting with air moisture. Partially used containers should not be left open

and exposed to the air. Curing in the once opened container can be slowed by placing Saran Wrap directly over the surface of the coating and tightly resealing the container.

### **CAUTION!!!!**

Be sure area is well vented. The solvents used in ERSystems Primer Surfacer are flammable and, in some cases, irritating to the eyes and skin. Keep containers tightly closed and away from heat, sparks and open flame.

ERSystems Primer Surfacer contains chemically active isocyanate groups that react with water, alcohols and amines. Avoid breathing of vapors and contact with skin. Use appropriate chemical cartridge or air-supplied respirators where limited air movement might occur. In confined areas, adequate ventilation or fresh air supplied hoods must be provided during application. This primer is not intended for non-industrial use. Proper eye protection and protective clothing for the skin should be worn. Keep out of reach of children. If swallowed, **DO NOT** induce vomiting. Drink 1 to 2 glasses of water. Call a physician immediately.

The flow of material through pump and system could create static electricity. When pumping flammable materials, all equipment must be properly grounded to prevent static discharge and sparking, which could cause fire or explosions. Use only conductive or grounded air and material hoses, and be sure that compressor and pump are properly grounded per manufacturer's recommendations.

### **WARRANTY**

IMPORTANT: While the information and data contained herein are presented in good faith and believed to be reliable, they do not constitute part of our terms and conditions of sale. Nothing herein shall be deemed to constitute a warranty, expressed or implied, that said information or data are correct or that the products described are merchantable or fit for a particular purpose, or that said information, data or products can be used without infringing patents of third parties.

ERSystems' sole warranty is that the product will meet the sales specification at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

**PRIOR TO USE OF THIS MATERIAL, READ ALL APPROPRIATE MATERIAL SAFETY DATA SHEETS.**

**CHEMICAL AND SOLVENT RESISTANT DATA**

<b><u>Exposure</u></b>	<b><u>Failure</u></b>	<b><u>Days @ RT</u></b>
Distilled, Tap, or Sea Water	None	--
Sulfuric, Hydrochloric, or or Nitric Acid, 10%	None	--
Acetic Acid, 10%	Small Blisters	10
Formic Acid, 10%	Small Blisters	8
Lactic Acid, 10%	None	--
Citric Acid, Alcohol, 10%	None	--
Tannic Acid Solution	None	--
Linseed Oil Fatty Acid	None	--
Soda Solution, 20%	None	--
Common Salt Solution, 10%	None	--
Sugar Solution, 30%	None	--
Caustic Potash Solution, 10%	None	--
Ammonia, 10%	Small Blisters	20
Chlorine Solution, 3% Free Chlorine	None	--
Hydrogen Peroxide, 10%	None	--
Premium-Grade Gasoline, Xylene	None	--
Cresol	Destroyed	5
Methylene Chloride	Destroyed	1
Ethyl Glycol Acetate	None	--
Acetone	Softens	10

**Gardner Impact**

Direct, in./lbs.	passes 120
Kg/cm	passes 138
Reverse, in./lbs.	passes 120
Kg/cm	passes 138
Conical Mandrel Bend Test, ASTM D522	passes 1/8"