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Erathane 300 Finish Coat White

Product Data Specification

TYPICAL PHYSICAL PROPERTIES

Solids (Volume)	80%
Viscosity	4000 - 6000 cps
Ultimate Elongation	489%
ASTM D-412	
Tensile Strength	1550 psi
ASTM D-412	
Weight/Gallon	9.3 lbs.
Shelf Stability	6 months
Hardness	56
ASTM D-2240	
Water Absorption	<1% by weight
ASTM D-471	
Reflectivity	79%
Emissivity	0.90
Moisture Vapor Transmission	
ASTM E-96 66 Procedure:	
(a) 15 mil (0.015") Dry Film	3.7 Perm ± 0.6
(b) 30 mil (0.30") Dry Film	2.4 Perm ± 0.4
Cured 7 days @ 77° F 50% RH	
Cure Time	15 hrs to re-coat (75° F 45% RH)

DESCRIPTION

Erathane 300 Finish Coat White is a reflective, cool, high performance elastomeric polyurethane coating. The product is a liquid applied, single component, moisture-cured polyurethane coating.

Erathane 300 Finish Coat is designed to provide a combination of superb adhesion to a variety of substrates and a balance of high elongation and high tensile strength. Erathane 300 Finish Coat is a "tough" coating and provides the ultimate in waterproofing.

USES

Erathane 300 Finish Coat has a high solids consistency designed to provide an economical tough film Finish. It has excellent adhesion to metal roofing and Erathane 300 Base Coat over polyurethane foam and concrete, aged modified bitumen, aged BUR, wood and other substrates.

COLORS

Standard color is white. Note: color changes to off-white after sun exposure and fades to brighter white over time.

PACKAGING

Standard is 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 medium nap solvent resistant roller.

Airless Spray Equipment: Airless spray equipment should be capable of 3 gallon per minute capacity at 3500 psi. 3500 psi at the spray gun is essential to produce the desired pattern. Erathane 300 Finish Coat is designated a "medium elastomeric coating" with high viscosity for pump purposes. 3/4" high pressure hoses perform well. The airless spray gun should be equipped with a ball-bearing swivel for ease of handling. Recommended orifice size is .028" - .035" diameter, wide-angle fan pattern. A reverse-a-clean nozzle is recommended. Exact orifice size will vary with temperature of the material and weather condition.

APPLICATION

General Application: All surfaces to be coated must be clean, dry, and free of contaminants, such as dirt, oil, grease, loose coatings or debris. Power wash blasting is typically required to remove contaminants. Erathane 300 Base Coat may be applied at a rate of 2 gallons per square in a single pass over very smooth surfaces producing over 25 dry mil thickness. The initial coat of Erathane 300 Base Coat is usually back rolled to eliminate pin-holing. Some applications may require a second pass (where a rougher, irregular surface exists). Allow 10 - 15 hours cure time between coats.

Erathane 300 finish coat White can be applied at 1.5 to 2 gallons.

In planning application of Erathane 300 Base and Finish Coat consider environment and weather related conditions such as frost, dew, mist, condensation, humidity, and temperature. Temperature should be above 35° F., more than 5° F. above the dew point and rising, for best application results.

Application of Erathane 300 Finish Coat with spray equipment may require some masking and possible erection of wind screens to prevent over-spray and drift damage.

Over Polyurethane Foam: (See Polyurethane Foam Insulation Roof Specification - Urethanes) Follow the detailed instructions regarding characteristics of the Polyurethane foam required and preparation of the surface per the Specification. Apply a minimum of 2 gallons of Erathane 300 Base Coat per SQ. Allow to cure, and finish with 1 – 1 ½ gallons per square of Erathane 300 Finish coat White.

Over Concrete: (See Concrete Roof Specification- Urethanes) Follow the detailed instructions in the Specification regarding concrete surface preparation prior to applying the Erathane 300 Finish Coat.

Once the concrete surface is properly prepared apply a minimum of 2 gallons of Erathane 300 Base Coat over the entire field of the roof. After allowing the Finish Coat to cure apply the finish coat of Erathane 300 finish Coat White or Erakote at a minimum of 1 gallon/square. Rough irregular concrete may require an additional gallon of Erathane 300 Finish Coat/square to achieve the uniform mil thickness desired.

Over Aged Modified Bitumen and Aged BUR: (See the Aged Modified Bitumen and Aged BUR Roof Restoration Specification) Follow the detailed instruction in the Specification regarding Aged Modified Bitumen and Aged BUR prior to applying the Erathane 300 Base and Finish Coats.

Once the Aged Modified Bitumen or Aged BUR surface is properly prepared, apply a minimum of 2 gallons of Erathane 300 Finish Coat over the entire field of the roof. After allowing the Finish Coat to cure apply the finish coat of Erathane 300 or

Erakote at a minimum of 1 – 1 ½ gallons/square. Rough, irregular, and badly alligatored surfaces may require a full ply of PolySoft II fabric across the entire field of the roof. An additional gallon of Erathane 300 Finish Coat/square may be required to achieve the uniform mil thickness desired.

RE-COAT TIME

Erathane 300 Finish Coat will typically cure sufficient to re-coat in 16 - 24 hours, at 75° F. and 45% R.H. Lower temperature and lower humidity will typically retard the cure rate. Erathane 300 Finish Coat will retain a slight tack to aid in the adhesion of finish coats.

TEMPERATURE CONSTRAINTS

Cold temperatures influence viscosity and pumping/handling characteristics of Erathane 300 Finish Coat. Heat increases and cold decreases the flow of Erathane 300 Finish Coat. When temperatures fall below 60° F., Erathane 300 Finish Coat can best be applied after storage at 70° F. or higher for a minimum of 48 hours prior to usage. For ease of application, material temperature should be 60° F. minimum. If Erathane 300 Finish Coat is to be pumped at temperature below 60° F. insulated or heated hoses may be required. For additional cold weather application techniques and information, consult ERSystems. The temperature service range is -50° F to 200° 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

Erathane 300 Finish Coat 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. If a cured film has formed on the top of the product it should be carefully cut away prior to mixing the remainder of the product in the container. The surface film formation does not affect the performance of the remaining product.

CAUTION!!!!

Contains polyurethane resin and mineral spirits. If swallowed, do not induce vomiting. If splashed in eyes, flush with clean water for a minimum of 15

minutes. In either case, call physician immediately. If splashed on skin, wash thoroughly with soap and water. Avoid breathing vapors and spray mists. Capable of producing severe dermatitis and bronchial spasms. Keep away from heat, sparks and open flames. Close container after use. Keep out of reach of children.

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 your compressor and

pump are properly grounded per manufacturer's recommendation.

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.