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HER

Product Data Specification

TYPICAL PHYSICAL PROPERTIES

Solids (Volume)	80%
Viscosity	Approx. 36,000 cps
Ultimate Elongation	
ASTM D412	500%
Ultimate Tensile Strength	
ASTM D412	450 psi
Shore A Hardness	
ASTM D2240	40
Low Temperature Flexibility	
ASTM D412	Pass at -60° F
Permeability	
ASTM E96	1.2 perms at 30 dry mil
Flash Point (Tag Close-Cup)	145° F
Resistance to Weathering	
ASTM D822	Excellent
Chemical Resistance	Excellent
Shelf Stability (75° F/50% RH)	6 months

DESCRIPTION

HER is a flashing grade single component moisture-cure polyurethane roof coating. HER is a tough, seamless elastomeric roofing membrane that has excellent adhesion to a wide variety of substrates.

USES

Uses include waterproofing metal roof seams and fasteners and flashing around roof penetrations where roof movement causes cracking and moisture penetration. HER has also found extensive use in sealing metal gutters. HER will also seal polyurethane foam, wood and concrete.

COLORS

Standard color available is aluminum gray.

PACKAGING

Packaging is standard in 20 oz. sausages and 1 and 5 gallon pails.

APPLICATION EQUIPMENT

HER can be applied by brush, roller and may be pumped by conventional airless spray equipment.

Brush or Roller: Recommended for flashing. Use a coarse, short bristle brush.

Airless Spray Equipment: HER can be pumped with the following equipment, and extruded into place on the metal roof. The pump must be capable of producing a material output of 2 gallons per minute at 3,000 psi. Ability to pump HER is typically related to the inlet plumbing to the pump. An unrestricted 1 1/2" inlet works well. To reduce the pressure required at the pump 3/4" high pressure hoses perform best. To extrude the HER, the gun is either removed or fitted with a wand without a tip and potentially with a flanged end to deliver a bead 3/4" to 1" wide.

APPLICATION

Over Metal: Properly clean, prepare and prime the metal roof surface (see Metal Roof Restoration Specification). The HER shall be applied to seams and fasteners by brush. HER may be pumped into place and then moved by brush to be at least 60 wet mils thick directly over the seams and feathered to a strip 3 - 4" wide. A brushing motion perpendicular to the roof seam will help force HER into the seam itself. A brushing motion parallel to the roof seam will feather the HER out along the seam. Approximately 80-100 linear feet of seams and fasteners will be sealed with 1 gallon of HER applied 3" wide and 60 mils thick. On most metal roofs 0.4 gallons to 0.5 gallons of HER per SQ will be required to waterproof the seams and fasteners.

HER may be used to seal around all roof penetrations, skylights, gutters, valleys, etc. Brush 60 mils of the sealer in a stripe 3" to 4" wide in each dimension around the penetration. If gaps exist or excessive roof movement is noted around penetrations, seams or fasteners the HER may be reinforced with Polyester fabric embedded into the coating.

Two coats of HER may be required in some areas to achieve the 60 mils film thickness.

HER must be stirred just prior to use to ensure uniformity of mixture. Metal surface must be dry and free of frost or dew. Best application will be achieved when HER is at least 60° F. and the surface to which it is applied is 40° F. or higher and rising in temperature.

After the initial cure (approximately 12 - 24 hours at 75° F. and 45% R.H.) is complete, all seams should be inspected for continuity of the coating membrane. HER may then be finish coated with Erathane 300, Erakote, Eraguard 1000 or another approved finish coat. Full cure of HER is weather dependent but may take as long as 10 - 12 days.

In planning application of HER consider environment and weather related conditions such as frost, dew, mist, condensation, humidity, and temperature. Temperature should be above 40° F., more than 5° F. above the dew point and rising, for best application results.

Do not apply over Silicone coatings or silicone caulks. Do not apply over fresh asphalt coatings, coal tar coatings or plastic roof cement.

Over Other Substrates: HER may be used for sealing substrates such as polyurethane foam, concrete, plywood, aged BUR, aged Modified Bitumen single-ply, etc. HER is typically used to seal cracks, penetrations and other points where a high solids tough coating is required.

TEMPERATURE CONSTRAINTS

Cold temperatures influence viscosity and pumping/handling characteristics of HER. Heat increases and cold decreases the flow of HER. When temperatures fall below 60° F, HER can best be applied after storage at 70° F for a minimum of 48 hours prior to usage. For ease of application, material temperature should be 60° F minimum. If HER is to be pumped at temperatures below 60° F insulated or heated hoses may be required. For additional cold weather application techniques and information, consult ERSystems. The service temperature range is -65° F to 180° F. The substrate temperature range for application is 40°F – 120°F.

CLEAN-UP

Upon completion of the application all tools,

hoses, and equipment must be cleaned with xylene.

LIMITATION

HER 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!!!!

HER contains a polyurethane resin and an aromatic solvent blend. 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. Use only with adequate ventilation. Proper eye protection and protective clothing for the skin should be worn. May produce severe dermatitis and bronchial spasms. Keep away from heat, sparks and open flames. Close container after use. Keep out of reach of children. For professional use only.

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 you compressor and pump are properly grounded per manufacturer's recommendations. Do not cut or weld on or near empty containers.

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.