



Product Data Sheet (PDS):

GacoFlex™ H.E.R. Flashing Grade
Polyurethane Sealant

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GACOFLEX H.E.R. FLASHING GRADE POLYURETHANE SEALANT

A. DESCRIPTION:

GacoFlex H.E.R. is a flashing grade single component moisture-cure polyurethane roof sealant. H.E.R. is a tough, seamless elastomeric roofing membrane that has excellent adhesion to a wide variety of substrates.

B. RECOMMENDED USE:

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

C. LIMITATIONS:

- GacoFlex H.E.R. 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 plastic 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.

D. PACKAGED PRODUCT DATA:

PROPERTY	DESCRIPTION
COLOR***	ALUMINUM GRAY
ADHESION	Excellent adhesion to galvanized, galvalume, aged Kynar™, or similarly coated metals.
THEORETICAL COVERAGE	20 square feet / per gallon (9.3m / 3.8 L) at 60 mil NOTE: Additional material may be required based on substrate type and weathering.
SOLIDS	80%
STORAGE STABILITY	12 months when stored between 50 °F – 85 °F (10 °C – 30 °C). Do not allow product to freeze. Some separation may occur after extended storage. Mix thoroughly before use.
TOXICITY	Not for use in contact with edible substances or potable water.
V.O.C.	186.9 g / L (EPA Method 24)
VISCOSITY	100,000 -170,000 cps
DENSITY	7.4 lbs / gal (3.5 kg / 3.8 L)

LOW TEMP FLEXIBILITY	Pass at -60° F (ASTM D412)
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E. PHYSICAL PROPERTIES

PHYSICAL PROPERTIES:	ASTM TEST	RESULT
ELONGATION AT 75°F (23.9°C)	D2370	400%
TENSILE STRENGTH AT 75°F (23.9°C)	D412	300-350psi

F. APPLICATION

STEP	INSTRUCTIONS
THINNING	Thinning is not recommended under normal conditions.
MIXING	Mix until homogeneous with a mechanical mixer before application to ensure uniform color and consistency.
SURFACE PREPARATION	Remove loose material, dirt, and other debris from the application area with a stiff bristle brush. <u>SINGLE-PLY & SMOOTH SURFACES:</u> Cleaning with a solution of 9-parts clean water to 1-part GacoWash Concentrated Cleaner per its instructions is recommended for best results. Allow the area to dry thoroughly. <u>METAL:</u> Remove rust and scale from metal surfaces with a wire brush and ensure application area is free of loose rust and scaling debris. Slick, pre-finished metal surfaces should be abraded with a wire brush or sandpaper and wiped with a clean, dry rag to ensure application areas is free of loose abrasion debris.
APPLICATION EQUIPMENT	GacoFlex H.E.R. 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: H.E.R. 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 GacoFlex H.E.R. 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 H.E.R., 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: GacoFlex H.E.R. 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 GacoFlex H.E.R. may be reinforced with Polyester fabric embedded into the coating. Two coats of H.E.R. may be required in some areas to achieve the 60 mils film thickness.

	Metal surface must be dry and free of frost or dew. Best application will be achieved when GacoFlex H.E.R. is at least 60° F (15.6°C) and the surface to which it is applied is 40° F (4.45°C) or higher and rising in temperature. After the initial cure (12 - 24 hours at 75°F (23.9°C) and 45% R.H.) is complete, all seams should be inspected for continuity of the coating membrane. GacoFlex H.E.R. may then be finish coated with GacoFlex Roof Coating or another approved finish. Weather related conditions such as frost, dew, mist, condensation, humidity, and temperature must be taken into consideration prior to coating. Temperature should be above 40°F (4.45°C), 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.
TEMPERATURE CONSTRAINTS	Cold temperatures influence viscosity and pumping/handling characteristics of GacoFlex H.E.R.. Heat increases and cold decreases the flow of GacoFlex GacoFlex H.E.R.. When temperatures fall below 60°F (15.6°C), GacoFlex H.E.R. 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 (15.6°C) minimum. If GacoFlex H.E.R. is to be pumped at temperatures below 60°F (15.6°C) insulated or heated hoses may be required. For additional cold weather application techniques and information, consult Gaco technical services. The service temperature range is -65°F (-53.9°C) to 180°F (82.2°C). The substrate temperature range for application is 40°F (4.45°C) – 120° F (48.9°C).
CLEAN UP	Upon completion of the application all tools, hoses, and equipment must be cleaned with acetone.
CAUTION	GacoFlex H.E.R. 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 your compressor and pump are properly grounded according to the manufacturer's recommendations. Do not cut or weld on or near empty containers.

* For specific Health and Safety information, please refer to Safety Data Sheet (SDS)