


Product	ASTM	Application Rate / Gallon Varies by surface roughness & porosity	Spray Equipment		Brush	Roll
			Required psi	Tip Size		
#280 White Elastomeric Roof Coating 	D-6083, except cold bend	1½ Gallon/100 ft. ² over #291 or 2 coats @ 1 –1½ Gallon/ 100 ft. ² /coat	1000 - 1500	.030-.040	ok	ok
#291 Premium Elastomeric Primer -base coat-		1 coat @ 1 to 1½ -Gallon/100 ft. ²	1000 - 1500	.030-.040	ok	ok
#299 Premium White Elastomeric Roof Coating	D-6083, except cold bend	1 coat @1 to 1½ -Gallon/ 100 ft. ² over #291	1000 - 1500	.030-.040	ok	ok

White Coating Performance Options:

GOOD	BETTER	BEST
#280 base and finish coat	#291 base coat with #280 finish coat	#291 base coat with #299 finish coat

GENERAL

- ☛ Power wash surface (use pressure of 800 to 1200 psi). Scrub areas with build up of dirt, grease and other foreign matter with solution of tri-sodium phosphate (TSP¹) and water. Rinse thoroughly.
 - ☛ Repair defects: Splits, cracks, ridges, large blisters, deteriorated flashings, cracked metal edging and any other defect affecting waterproofness of the roofing system. See Henry Repair Guide. Allow to cure as required.
 - ☛ Test drains before start of work and again at completion to make sure they are running freely.
 - ☛ Read product data completely.
 - ☛ Observe weather limitations. Take weather conditions into consideration at time of application as well as within 48 hours following application.
 - ☛ For best results reinforce valleys, waterways and alligatored surfaces with layer of 107 emulsion and 196 polyester. Allow to cure.
 - ☛ Asphalt-based products form a small amount of water soluble material as they weather. Normally not noticeable because rain washes it away. Roofs with poor drainage will accentuate the problem by concentrating the water soluble material in low spots. This can degrade or stain the white coating. If there is no rainfall, hose these roofs to remove the water solubles.
- ¹ - - Check with local municipalities for any limitations on use of TSP. Some TSP substitutes are not effective on roof oils.

Helpful Tips -

- ☛ Check for availability of "Cool Roof" rebates from utility or government agencies.
- ☛ Spray apply coating with finish coat applied 90° to base coat. Apply in parallel strokes.
- ☛ **MUST NOT BE THINNED!**
- ☛ Do not allow to freeze
- ☛ Pick a warm, sunny day with no forecast of moisture or evening dew.
- ☛ If roof is too hot to touch (140° F+) ...It is too hot to coat.
- ☛ Surface must be dry. Temperature must not drop below 40 F. during application or drying time. Do not apply if rain is expected before product is dry. Dry time will vary by temperature and humidity.
- ☛ Apply both coats the same day. Allow to dry thoroughly between coats. Schedule work so second coat can dry before nightfall.
- ☛ Use stretch film to protect equipment
- ☛ Close or cover air intakes when spraying to prevent odor being drawn inside.

GUIDE SPECIFICATION #HMS - [280] [291] [299]

1. PREPARATION

- a. Power wash all surfaces removing loose granules, debris. Scrub out build up of dirt and grease.
- b. Repair defects in the roof membrane and flashings per Henry Roof Repair Guide.
- c. Protect adjacent walls not scheduled for reflective coating. Protect equipment, roof top units, etc. from overspray. Close air intakes when spraying.
- d. Reinforce valleys, badly alligatored surfaces and areas that pond water with a layer of #196 polyester embedded in 4 gallons of #107 emulsion and surfaced with 3 gallons of #107 emulsion.

2. SURFACE REQUIREMENTS

- a. Select base-coat per substrate and performance options- reference Technical Data Sheets
- b. Coat new glass cap installations within 48 hours of original installation.
- c. #291 base coat is mandatory over APP roofs.
- d. Wait 90 days if roof has been surfaced with a solvent-based asphalt coating. Hot asphalt surfaces should have at least equivalent of one complete summer of weathering per ASTM D-3805-85.

3. REFLECTIVE COATING

- a. Over prepared dry surface apply base coat of #____ at the rate of _____ /gallons per 100 ft.² in one coat. Apply finish coat #____ at rate of _____ gallons per 100 ft.² in one coat at 90° to base coat.
- b. Any areas that peel must be redone before the project will be considered complete.

“Cool Roof” White Reflective Coating Estimating Guide

Repairs (See Henry Repair Guide)

_____ sq.ft. of roof and flashing repairs ÷ 33 ft.². = _____ cans 104Q Spray primer @ \$ _____/Can = \$ _____

Repair Method 1:

#600 Ruftac (Alternative repair material) _____ 9” x 50’ Rolls @ \$ _____/Roll = \$ _____
 _____ 12” x 50’ Rolls @ \$ _____/Roll = \$ _____
 _____ 36” x 38’ Rolls @ \$ _____/Roll = \$ _____

#209 ElastoMastic (use at termination edges of Ruftac – 12½ ft.²/gallon) @ \$ _____/Pail = \$ _____
 ElastoMastic available in 11 oz. Cartridges, 1 Gallon, 3½ Gallon, 5 Gallon containers

Repair Method 2:

Roof and flashing repairs to be 3 coursed:

_____ sq.ft. ÷ 30 ft.². = _____ 5 gallon pails #906 FlashMaster Plus or @ \$ _____/Pail = \$ _____
 _____ sq.ft. ÷ 21 ft.². = _____ 3½ gallon pails #289 ElastoCaulk @ \$ _____/Pail = \$ _____
 #196 Polyester - 40” x 324’ _____ Rolls @ \$ _____/Roll = \$ _____
 #181 Asphalt Coated Glass Fabric x 150 ft. long: _____ 4” Rolls @ \$ _____/Roll = \$ _____
 _____ *6” Rolls @ \$ _____/Roll = \$ _____
 _____ 12” Rolls @ \$ _____/Roll = \$ _____
 _____ *36” Rolls @ \$ _____/Roll = \$ _____

* These sizes also available in #183 Yellow Coated Glass Fabric x 150’ long

#107 Asphalt Emulsion (if specified)

_____ sq.ft. of roof and flashings x 3 gallons* #107 Asphalt Emulsion= _____ gallons.
 5 Gallon Pail covers approximately 165 ft.². _____ Pails @ \$ _____/Pail = \$ _____
 55 Gallon Drum covers approximately 1830 ft.². _____ Drums @ \$ _____/Drum = \$ _____
 Check for local availability in 275 gallon totes or bulk

LABOR: Option 1 - Use spray equipment sized to spray 3 to 10 gallons/minute.
 Option 2 – Brush application – Labor varies by skill and experience of the crew

White Elastomeric Coating [base and finish]

_____ Squares of roof and flashings x 1 to 1½ gallons* #280 or #291 **base coat** * = _____ gallons
 5 Gallon Pail _____ Pails @ \$ _____/Pail = \$ _____
 50 Gallon Drum _____ Drums @ \$ _____/Drum = \$ _____

PLUS

_____ Squares of roof and flashings x 1 to 1½ gallons* #280 or #299 **finish coating** * = _____ gallons
 5 Gallon Pail _____ Pails @ \$ _____/Pail = \$ _____
 50 Gallon Drum _____ Drums @ \$ _____/Drum = \$ _____

*Check for local availability in 250 gallon totes or bulk

LABOR: Option 1 - Use spray equipment sized to spray 1.5 gallons/minute.
 Option 2 – Brush application – Labor varies by skill and experience of the crew

***Note: coverage rate may be lower depending on surface roughness and porosity.**