



# Cold Process Roofing Specifications

## SPECIFICATION: AM1-FG-MF-PE-400

### Fiberglass and Polyester Reinforced Emulsion Roof System with Aluminum Coating

#### Approvals

ASTM, UL

#### General

APOC Specification AM1-FG-MF-PE-400 is a Reflective Roof Restoration System that is designed to provide an energy efficient, waterproof membrane over existing roof surfaces. This system is intended for older roof surfaces that have become weathered and deteriorated yet have maintained their structural integrity. The application of this high performance, polyester and fiberglass reinforced system can drastically reduce roof top temperatures, lower cooling demand by up to 30%, increase the life expectancy of existing HVAC systems and provide a sustainable roof membrane with extendable warranties. This seamless restoration system is ideal for use over existing gravel surfaced roof systems. The contractor or consultant is responsible for the roof deck inspection and integrity. All damaged areas, including dry rot, water damage, wet insulation, etc., shall be repaired in accordance with NRCA standards and / or local building codes. Roof must maintain positive drainage and should not retain ponding areas as defined by the NRCA. All general instructions from current APOC Roofing Systems Manual, Product Data Sheets, Job Specific Pull Sheets, and Master Specification are included as part of this specification.

#### Surface Preparation

Roof shall be power broomed and vacuumed free of all rock and / or gravel on roof surface. Roof surfaces shall be swept clean of all dirt and debris and power washed prior to application of emulsion system.

#### Flashings & Repairs

All repairs and flashings shall be sealed using APOC #501 Neoprene Flashing Cement and Yellow Jacket Fiberglass Reinforcement or APOC #260 White Elastomeric Roof Patch and Polyester Reinforcement. All platforms and metal joints in edging, coping, etc., shall be primed and sealed with a layer of Pro-Tack. Flashing details can be found in APOC Roofing Systems Manual. See project specific details for additional information.

#### Emulsion Flood Coat

Roof shall be completely cleaned prior to system application. Apply flood coat of APOC #300 Asphalt Emulsion at the rate of 12 gallons per square. Allow product to cure a minimum of 24-48 hours depending on drying conditions.

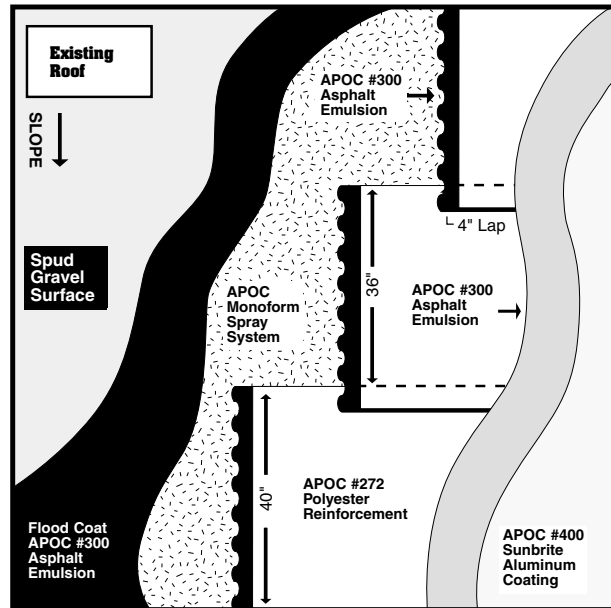
#### Monoform Surfacing

Monoform spray system shall be applied at the rate of 9 gallons of APOC #300 Asphalt Emulsion and 3 lbs. of chopped fiberglass per square. Application shall be to entire roof including any parapet walls and shall be applied with special Monoform spray rig. Monoform surfacing shall be allowed to cure 24-48 hours prior to proceeding with polyester application.

#### Roofing Membrane

All valleys and waterways shall receive an extra layer of polyester set in modified emulsion. Polyester shall be embedded in APOC #337 Modified Emulsion at the rate of 4 gallons per square. Over entire roof embed a layer of polyester ply sheet in 4 gallons of APOC #300 Asphalt Emulsion starting at the lowest point on the roof and working up the slope of the roof. Broom polyester into emulsion eliminating any blisters, wrinkles and folds. Polyester shall be overlapped a minimum of 4"

#### FOR USE OVER GRAVEL ROOF SURFACES



#### Materials (per 100 sq. ft.)

ITEM/DESCRIPTION	WEIGHT
<b>Emulsion:</b>	
APOC #300 Asphalt Emulsion @ 12 gallons	52 lbs.
<b>Monoform:</b>	
APOC #300 Asphalt Emulsion @ 9 gallons	39 lbs.
APOC Chopped Fiberglass @ 3 lbs.	3 lbs.
<b>Emulsion:</b>	
APOC #300 Asphalt Emulsion @ 4 gallons	18 lbs.
<b>Interply:</b>	
1 layers of Polyester Mat	3 lbs.
<b>Emulsion:</b>	
APOC #300 Asphalt Emulsion @ 4 gallons	18 lbs.
<b>Coating:</b>	
APOC #400 Sunbrite Aluminum @ 1.5 gallons	6 lbs.
<b>Approximate Dry Weight</b>	<b>139 lbs.</b>

on side laps and 6" on end laps. Ensure there is an adequate amount of #300 Asphalt Emulsion completely sealing all seams and that there are no fishmouths. After polyester has been brushed into place, apply 4-5 gallons of #300 emulsion over the polyester completely saturating fabric. Polyester and emulsion shall be allowed to cure a minimum of 24 to 48 hours depending on drying conditions prior to application of reflective coating.

#### Coating

APOC #400 Sunbrite Aluminum shall be applied at the rate of 1 1/2 gallons per square. Apply APOC #400 in a cross hatch pattern ensuring smooth and continuous film over the surface.