



# Cold Process Roofing Specifications

## SPECIFICATION: AM2-FG-MF-PE-252

### Fiberglass and Polyester Reinforced Emulsion Roof System with White Acrylic Coating

#### Approvals

ASTM, UL, CRRC, Energy Star, Title 24, Metro-Dade

#### General

APOC Specification AM2-FG-MF-PE-252 is a highly reflective Cool 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, double-ply, fiberglass reinforced system can drastically reduce roof top temperatures, lower cooling demand by up to 50%, 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.

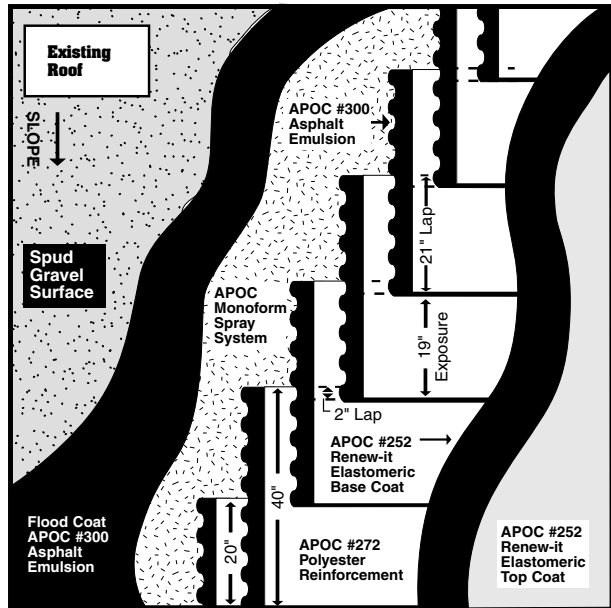
#### Monoform Surfacing

Monoform spray system shall be applied at the rate of 12 gallons of APOC #300 Asphalt Emulsion and 4 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 install 2 layers of polyester set in a minimum of 4 gallons of APOC #300 Asphalt Emulsion per layer. Broom polyester into base coating eliminating any blisters, wrinkles, folds, etc. Install first layer of polyester starting at the lowest point of the roof using a 20" wide roll. The second layer of polyester shall be applied directly over first ply using a 40" wide roll (overlapping first roll by 20"). Each additional layer of polyester shall be installed using a 40" wide roll lapping previous roll by 21" and leaving a 19" exposure. Ensure there is an

#### FOR USE OVER EXISTING 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 @ 12 gallons	52 lbs.
APOC Chopped Fiberglass @ 4 lbs.	4 lbs.
<b>Emulsion:</b>	
APOC #300 Asphalt Emulsion @ 8 gallons	36 lbs.
<b>Interply:</b>	
2 layers of Polyester Mat	6 lbs.
<b>Coating:</b>	
APOC #252 Acrylic Elastomeric @ 4 gallons	29 lbs.
<b>Approximate Dry Weight</b>	<b>179 lbs.</b>

adequate amount of #300 Asphalt Emulsion to completely seal all seams and that no fishmouths are created. Continue process across existing surface to roof peak. Repeat the process starting from the low point on the opposite side of the roof. End laps shall be staggered and offset a minimum of 3'. Polyester and #300 Asphalt Emulsion shall be allowed to cure a minimum of 24-48 hours depending on drying conditions.

#### Coating

APOC coating shall be spray applied over entire roof surface including flashings, vents and ductwork. Coating shall be applied directly to polyester reinforcement. APOC #252 shall be applied in two uniform coats at 2 gallons per square, per coat. Apply first coat using APOC #252 Gray Elastomeric Base Coat spraying in a cross hatch pattern ensuring smooth and continuous film over the surface. Apply second coat using APOC #252 Sunwhite Elastomeric spraying material perpendicular to first coat. Allow a minimum of 12-24 hours between coats depending on drying conditions. Two coats must be applied for a total coverage rate of 4 gallons per square.