



# 585 ARMOR FLEX® LIQUID SILICONE ROOF MEMBRANE

## TECHNICAL DATA SHEET



MIAMI-DADE COUNTY APPROVED

### TYPICAL PHYSICAL & PERFORMANCE CHARACTERISTICS:

Solids Weight (ASTM D1644)	98 ± 2%
Solids Volume (ASTM D2697)	98 ± 2%
Density	11.0 lbs/gal
Tensile Strength (ASTM D2370)	275 psi
Elongation (ASTM D2370)	425%
Tear Resistance (ASTM D624)	37
Initial Reflectivity	.90
Initial Emissivity	.90
SRI Value	115 Initial
Permeability (ASTM E96)	4 perms
Water Absorption (ASTM D471)	.1% after 2 weeks at 75 °F
Weathering	No degradation after 5000 hrs
Tack Free Time	1 hour
Durometer Hardness	55 ± 5 pts
Maximum Surface Temp	180 °F
Flash Point	>290 °F
Dry - Recoat	6 hours
Full Cure	72 Hours
Shelf life	Up to 18 months depending on storage

### DESCRIPTION:

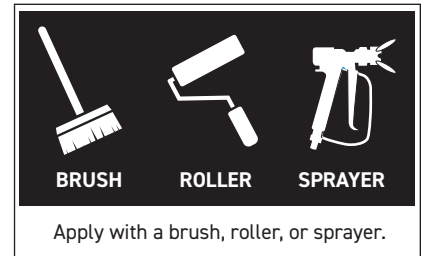
**APOC® 585 ARMOR FLEX® LIQUID SILICONE ROOF MEMBRANE** is a moisture cure, fluid applied, high solids, silicone coating. Armor Flex creates a shield of protection over your roof with Pond-Proof® Technology and cutting edge performance. Engineered with "Green" solvent-free polymers, Armor Flex outperforms traditional solvent and solvent-free products including asphaltic, urethane, thermoplastic and other protective coating products. Additionally, Armor Flex has minimal impact on the applicator or our environment.

### PRIMER:

An APOC approved bleed blocking primer should be used on applications over asphalt substrates to help limit bleed through or discoloration. Asphalt, single ply membranes and metal should be field adhesion tested to determine if primer is needed.

### PREPARATION:

All surfaces must be dry and free of dust, dirt, oil, loose materials, peeling paint etc. Rusty metal must be cleaned with a wire brush and primed with APOC® 291 before application of this product. Surfaces with mildew or biological growth must be cleaned with a bleach solution (2 parts water to one part bleach). Clean and pressure wash the roof. A mild detergent with broom is recommended on single ply membranes. Take special care to thoroughly clean and remove all loose carbon from EPDM rubber membrane. Use only a wide fan spray tip or wet vac. Previously coated surfaces must be completely dry and cured. Contact APOC with material type questions. Once dry, prime surface as required. Next, treat all penetrations, drains, flashings, ponding, terminations, curbs, etc., with approved APOC sealant and or reinforcement as specified by APOC. See APOC website for specifications and details.



### APPLICATION:

For exterior use only. **DO NOT THIN.** Rain, dew, fog, frost and relative humidity greater than 70% may result in adhesion problems. Protective clothing, gloves, and eyewear should be used during application. Application should be completed when air and material temperatures are between 40 °F and 120 °F. Application can take place at colder temperatures (above 32 °F) however, special precautions must be taken to ensure there is **NO MOISTURE, DEW or FROST** present on the roof. These conditions will create adhesion issues. Apply with a 3/4" nap exterior paint roller (preferably with mill gauge) or long bristle brush. Contact APOC for spray requirements. Apply a uniform coat over entire surface, avoiding excessive rolling. Coverage varies depending on surface roughness of existing membrane, warranty & term. For extended warranty information, see published warranty qualifications at [www.apoc.com](http://www.apoc.com). If multiple coats are used, additional coats shall be applied between 4 - 24 hours after first coat. If there will be foot traffic on roof after installation (and cured), embed 40 - 60 lbs. of #11 ceramic granules per 100 sq ft into top layer of coating to create a non-skid finish. Surfaces without granules are slippery when damp or wet. Coating dries in 2 - 4 hours and fully cures in 8 - 24 hours at 70 °F and 50% relative humidity at 1.5 gallons per square. Thicker films, poor air flow and low humidity will increase dry times. Seal container when not in use. Do not walk on coating until fully cured. The contents of this container are reactive with moisture in the air. Curing starts immediately upon opening lid or breaking seal. Opened product cannot be returned. Use all contents within one day of opening.

**NOTE:** If roof becomes hot (over 100 °F) during application, wait for roof to cool. **DO NOT** apply to a wet or damp surface.



### Approx. Shipping Weights:

(Note: All approx. weights include container)

1 gallon (3.4L)	12 lb.
5 gallons (18.9L)	60 lb.
55 gallon drum (208.2L)	664 lb.
275 gallon drum (1.039L)	3262 lb.

**VOC: <10 g/L max. (regulatory)**

### PERSONAL PROTECTIVE EQUIPMENT



EYEWEAR



PROTECTIVE  
CLOTHING



GLOVES

### COVERAGE RATE:

1.5 - 4 gal. per 100 sq. ft.

### CLEAN-UP:

Spray equipment with VM&P or Naptha. Do not leave AP-585 for long periods in hoses, pumps or spray guns.

### STORAGE & HANDLING PRECAUTIONS:

Do not heat or thin. Keep container sealed when not in use. Product must be kept out of sunlight, protected from the elements and in areas where air flows freely and is not restricted. Shelf life is up to 18 months from date of manufacturer for unopened containers. For maximum shelf life store between 50 °F and 80 °F. Storage at temperatures outside these conditions or at relative humidity over 65% will reduce shelf life. Storage longer than 6 months may require additional mixing. Tightly seal container after opening and when not in use. Opened containers should be used within one day of opening. If a skin forms, remove prior to mixing material. When transporting this product, ensure that the lid and openings are tight and unit is secure and upright. Do Not allow products to tumble or shift as this may cause leakage to occur. Do not transport on passenger seats or inside the passenger compartment of any vehicle. Store product in the cargo area of vehicle, and secure on top of 6 mil plastic sheeting to prevent damage due to accidental spills or loosening of lids.

### WARRANTY & DISCLAIMER:

For limited warranty and disclaimer information, visit our website at: [www.apoc.com/productwarrantyinfo](http://www.apoc.com/productwarrantyinfo).