

Affinity

Polyurethane Roof Coating

Manufacturer:

Conklin Company Inc.
551 Valley Park Drive
Shakopee, Minnesota 55379
(800) 888 – 8838 Fax (952) 496 - 4285

Product Description:

Basic use: Affinity is a polyurethane roof coating with a highly reflective bright white finish. It is designed as a one coat waterproofing system for metal roofs, spray polyurethane foam, approved membranes, and Conklin's Fabric Reinforced System.

Limitations: Must not be applied at temperatures below 40°F or during inclement weather. Surface temperature must be at least 5°F above dew point and relative humidity less than 80 percent to ensure dry surfaces. Mix thoroughly before use. Ambient temperature should not exceed 100°F and surface temperature should not exceed 120°F. The polyurethane foam must be free of ponding water. By definition a roof surface which has more than 36 sq. ft. of water in any area ¼" deep or more, 48 hours after a rain, shall be considered unacceptable. All water shall drain off of the roof. Small "bird baths" cannot account for more than 5 percent of the entire roof surface.

Sizes: Available in 5-gallon containers

Coverage Rate: Affinity should be applied at 1.1 gallons per 100 square feet.

Companion Products:

- Tack Coat
- Prime Time®
- Metal Ready® Universal

Testing & Approvals:

"No approvals"

Technical Data:

| | |
|---|-----------------------------|
| Resin Type | Urethane |
| Color | White |
| Coverage | 1.1 gallons per 100 sq. ft. |
| Density | 10.2 lbs./Gallon |
| Thickness | 13.5 dry mils |
| Number of Coats | Top Coat |
| Dry Time** | 2-8 Hours |
| VOC Content | 181 g/L (1.15 lbs./gal) |
| Elongation | 600% (ASTM D-2370) |
| Tensile Strength | 2000 psi (ASTM D-2370) |
| Solar Reflectivity | 85% - ASTM E-903 |
| Standard Test Method for acrylic coatings | Pass - ASTM D6083-97 |

*Refer to Underwriters Laboratories Roofing Materials and Systems directory for specific fire resistance assemblies or contact Conklin Roofing Systems.

**Dry time for Affinity will vary depending on temperature, humidity, thickness at which the product is applied and wind. Lower wind speed, higher humidity or higher wet film thickness will increase the dry time in excess of the reported average.

Application:

Mixing/thinning: Always mix Affinity and color packet thoroughly before use.

Surface Preparation: The substrate must be structurally sound, solid, clean and dry. On certain decks and surfaces, proper installation of drains, vapor retarders, roofing vents, expansion joints, flashings, and positive slope to drain will be required.

The application surface must be finished, smooth and free of grease, wax, dirt, contaminants, moisture and other matter that would interfere with adhesion. It must also be free of chips loose roofing or other foreign matter.

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Do not apply to SPF foam surfaces with texture of “verge popcorn” “popcorn” or “tree bark”.

Application: The recommended application rate is 1.1 gallons per 100 sq. ft. of Affinity top coat. This rate includes 15 percent for application loss and 10 percent for surface texture. Under very irregular roofing substrate conditions more product may be required. Must be applied in a continuous, unbroken film of dry thickness no less than 13.5 mils per coat over entire roof. If roofing granules are to be used, they **MUST** be embedded using a second application of top coat at 1.0 gallon per 100 sq. ft. Quartz granules should be applied at a minimum of 50 lbs per 100 sq. ft.

Clean Up:

While coating is still wet, clean yourself, tools and the area with xylene.

Disposal:

Dispose of product in accordance with local state and federal regulations governing hazardous waste.

Safety:

Warning: HARMFUL IF SWALLOWED. May cause eye, skin and respiratory system irritation. Keep out of the reach of children. If spraying use a NIOSH-approved dust/mist mask.

First Aid: Eyes – immediately flush with plenty of water for at least 15 minutes. If a contact lens is present, **DO NOT** delay irrigation or attempt to remove the lens until flushing is complete. Skin – wash with soap and water, followed by a thorough rinse. Ingestion, if swallowed, **DO NOT INDUCE VOMITING**, dilute with three to four glasses of water. Immediately call a Poison Control Center or physician for further instructions. Inhalation – immediately move to fresh air.

For US Health Hazard Information, call:

1-888-786-0974

Proposition 65 Statement: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

VOC Concentration: as applied (less water and exempt solvents): **181 g/L** (1.15 lbs./gal.)

Storage:

Keep containers tightly closed when not in use. Store in a cool place, above 40° F. Keep from freezing.

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