

# Benchmark®

## Acrylic Elastomeric Roof Coating – Premium

### Manufacturer:

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

### Product Description:

**Basic use:** Benchmark® is an elastomeric, acrylic, monolithic roof coating in a bright white finish. It is designed to completely waterproof a number of approved substrates, which includes: metal roofs, spray polyurethane foam, 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. Ambient temperature should not exceed 100°F and surface temperature should not exceed 120°F. The polyurethane foam must be free of ponding water. 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. Small "bird baths" cannot account for more than 5 percent of the entire roof surface.

**Sizes:** Available in 5-gallon containers, 55-gallon drums and 220-gallon mini-bulks.

**Coverage Rate:** Benchmark should be applied at 1.9 gallons per 100 square feet.

### Companion Products:

- Benchmark® Base Coat
- PUMA® XL
- Prime Time®
- Tack Coat
- Encase® Metal Primer

### Testing & Approvals:

<b>UL-790 Fire Rating</b>	Class "A"
<b>Hail Rating</b>	UL Class "4" TGFU.R8435 FM Severe Hail 4470
<b>ICC</b>	Approved Fire Retardant
<b>US Dept. of Energy</b>	Energy Star Rated
<b>CRRC</b>	Approved

### Technical Data:

<b>Resin Type</b>	Acrylic
<b>Color</b>	White
<b>Coverage</b>	1.9 gallons per 100 sq. ft.
<b>Density</b>	10.8 lbs./Gallon
<b>Thickness</b>	13.5 dry mils per coat
<b>Number of Coats</b>	Base & Top Coat
<b>Dry Time**</b>	2 – 8 Hours
<b>Total Solids (by weight):</b>	65 %
<b>(by volume):</b>	54 %
<b>Elongation</b>	340% (Base & Top) ASTM D-412
<b>Tensile Strength</b>	410 psi (Base & Top) ASTM D-412
<b>Flexibility</b>	Pass 1/8" Mandrel - 40° F ASTM D - 1737
<b>Standard Test Method for acrylic coatings</b>	Pass – ASTM D6083-05
<b>Initial Reflectivity:</b>	0.85 - ASTM E-903
<b>Aged Reflectivity:</b>	0.72 – ASTM E-903
<b>Initial Emissivity:</b>	0.89
<b>Aged Emissivity:</b>	0.89
<b>Initial SRI:</b>	107
<b>Aged SRI:</b>	0.88
<b>VOC Content</b>	44 g/L (0.37 lbs./gal)

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

\*\*Dry time for Benchmark 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.

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### Application:

**Mixing:** The mixing of this product is dependent on age, storage conditions and containers. Please contact the Building Product division!

**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.

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

**Application:** The recommended application rate is 1.9 gallons per 100 sq. ft. of Benchmark base coat, followed by 1.9 gallons per 100 sq. ft. of Benchmark 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 water. If the coating is not fully dry, it can easily be removed with a solution of Mox® multipurpose cleaner and water.

### 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.

### Storage:

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



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