First Aid: Eyes – immediately flush with plenty of water, and continue rinsing for at least 15 minutes. Skin – wash with soap and water, followed by a thorough rinse. Ingestion – if swallowed, DO NOT INDUCE VOMITING, dilute with one to two cups of water or milk. Immediately contact a poison center control center or physician for further instructions. Inhalation – immediately move to fresh air. For U.S. Health Hazard Information, call (800) 228-5635.

### SPECIFIC PRODUCT GUARANTEE

**Benchmark®**

Conklin Company’s guarantee to the Independent Business Owner: Conklin Company Inc. guarantees for a period of five (5) years from date of purchase that Benchmark® is free from any defects in manufacture. This guarantee is limited to replacement of product at the expense of the company when such product proves to be defective in manufacture. Among other things, this guarantee does not apply to coverage failure due to improper application. Proper application includes, but is not limited to the requirements, that Benchmark must be applied in a continuous, unbroken (closed seal) film of a dry thickness of not less than 27 mils, with a wet thickness of not less than 48 mils. THE COMPANY SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES FROM ANY CAUSE WHATSOEVER. THIS WARRANTY IS IN LIEU OF THE IMPLIED WARRANTY OF MERCHANTABILITY AND ALL OTHER WARRANTIES EXRESSED OR IMPLIED. This guarantee applies only to the Conklin Independent Business Owner who purchases the product and cannot be extended to any other person.

**Benchmark®** has been designed for new spray-in-place polyurethane foam. Application of the base coat should be made no sooner than two hours and no later than 72 hours following the spray-foam application. However, for best results, application should be made on warmer two hours and no later than 48 hours following the spray-foam application. Proper application of the base coat should be made in a continuous, unbroken (closed seal) film of a dry thickness of not less than 48 mils, with a wet thickness of not less than 27 mils. THE COMPANY SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES FROM ANY CAUSE WHATSOEVER. THIS WARRANTY IS IN LIEU OF THE IMPLIED WARRANTY OF MERCHANTABILITY AND ALL OTHER WARRANTIES EXRESSED OR IMPLIED. This guarantee applies only to the Conklin Independent Business Owner who purchases the product and cannot be extended to any other person.

**Specific Application Guide**

**Acrylic Roof Coatings**

**Applications**

- **Coatings**
- **Roof**
- **Acrylic**

**Characteristics**

- **High tensile strength, elongation, and toughness**
- **Seamless membrane. This two coat system offers**
- **The performance of urethane with the benefits of acrylics to create a**
- **A coating will perform well only if the surface to which it is applied is properly prepared and clean. The substrate**

**Properties: Tensile Strength and Elongation**

<table>
<thead>
<tr>
<th>Property</th>
<th>Base Coat</th>
<th>Top Coat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength</td>
<td>410 PSI</td>
<td>410 PSI</td>
</tr>
<tr>
<td>ASTM D-412</td>
<td>410 PSI</td>
<td>410 PSI</td>
</tr>
<tr>
<td>Elongation</td>
<td>338%</td>
<td>338%</td>
</tr>
<tr>
<td>ASTM D-412</td>
<td>338%</td>
<td>338%</td>
</tr>
</tbody>
</table>

**Specifications**

- **Application Temperature**
  - Do not apply at temperatures less than 40 F or during inclement weather.

**Solids**

- **(% by weight)**
  - Base Coat: 64.5%
  - Top Coat: 65.5%

**Dry Time**

- **(hours)**
  - Base Coat: 2 – 8
  - Top Coat: 2 – 8

**Thickness (dry mils)**

- **Base Coat: 13.5**
- **Top Coat: 13.5**

**Color**

- **Base Coat: Blue/Gray**
- **Top Coat: White**

**Density**

- **Base Coat: 10.4 lbs./gal.**
- **Top Coat: 10.9 lbs./gal.**

**For more information, contact Conklin Company's Product Services.**

**Safe & Effective!**

- **Conklin Company Inc.**
  - Building Products Division
  - 551 Valley Park Drive
  - Shakopee, MN 55379
  - www.conklin.com

**Benchmark® is a registered trademark of Conklin Company Inc.**

**Warranties**

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Polyurethane foam that is off-ratio should also be removed and refoamed before applying Benchmark®. Off-ratio spray-foam is evident by a brown, glossy structure (high isocyanate) or may feel oily and possibly tacky (high polyol).

Spray-foam surface must be cleaned, free of any dirt or grease, and dry before applying Benchmark. Broken or cracked foam, or imperfections in the foam such as tunnels caused by the blowing agents, should be caulked with Conklin Kwik Kaulk® acrylic latex caulking compound before coating.

Spray-foam application should provide at least 1/4:12 slope to drain. Benchmark top coat should be applied to the base coat as soon as it has reached full cure, usually in 24 hours.

Benchmark top coat is a white reflective coating and should not be tinted to any color. However, Kolor Kote® finish coat may be used to achieve desired color when applied over Benchmark top coat.

**Eliminating large depressions and ponding areas on flat roofs**
Large depressions and ponding areas (expanses greater than 36 square feet) are not acceptable and must be corrected using one of the following methods:
1. Spray-in-place foam
2. Drains
3. Crickets
4. Tapered boardstock

**Filling small cracks**
Cracks less than one-fourth inch by one-eighth inch should be filled with Kwik Kaulk acrylic latex caulk to provide a base for a complete membrane seal of Conklin roof coating product over the entire surface. All remaining joints, cracks and flashing details should be prepared using joint tape applied according to instructions. When the job is complete, the result will be a double thickness of coatings/fabric over each joint. Old and/or deteriorated surfaces which contain more than 30 percent alligatoring will require either a complete tear off or use of a ply system (fabric reinforcement). Cracks and holes must be patched, loose substrates removed, damaged surfaces prepared, wet insulation replaced, and vents added (if required) prior to the application of Conklin roof coating products.

**Applying insulation board decks**
Before applying coating to insulation board decks, all joints and flashing details should be prepared by caulkng and using joint tape with a double thickness of base coat over each joint. Refer to the Rapid Ply/Bench Ply specification sheet before application of the system.

**METHODS**
When applying Conklin acrylic roof systems remember:
- The first coat must be thoroughly dry before walking or spraying on the second coat. Inspect and patch any voids prior to applying the second coat. The quality of application is always of utmost importance.
- Check the application for pinholes or fissures in the coating. These must be patched or filled using Kwik Kaulk or a significant amount of coating before applying the next coat.
- Do not walk on the second or final coat until complete curing takes place.

**Airless spray equipment**
Benchmark can be applied with airless spray equipment. It is necessary to move the coating into the small seams and cracks to achieve a continuous membrane. A spray tip orifice of .028 – .035 inches is recommended at a minimum 2,500 psi fluid pressure. When spraying Benchmark, store materials in a warm environment, 60 F or above. Cold material causes difficulty when spraying.

<table>
<thead>
<tr>
<th>COVERAGE RATES (gallons/square)*</th>
<th>Substrate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product</strong></td>
<td><strong>Metal Approved Plywood</strong></td>
</tr>
<tr>
<td></td>
<td>/*Concrete</td>
</tr>
<tr>
<td>Prime Time*</td>
<td>Optional</td>
</tr>
<tr>
<td>1st coat</td>
<td>1.9</td>
</tr>
<tr>
<td>2nd coat</td>
<td>–</td>
</tr>
<tr>
<td>Top Coat</td>
<td>1.9</td>
</tr>
</tbody>
</table>

*The above application rates include 15% for application loss and 10% for surface texture. This chart is not meant to represent absolute rates, but are starting points to assist in the bidding of a job. Under very irregular roofing substrate conditions, more product may be required. Most importantly, Benchmark must be applied in a continuous, unbroken film of a dry thickness of no less than 27 mils over the entire roof.

**Refer to Conklin specification sheet section 07542C on Rapid Ply and Bench Ply for specific application details.