

Manufacturer's Specifications

PUMA TM Patent Pending

1. PRODUCT NAME

PUMA™ Poly-Urethane Modified Acrylic Water-Based One Coat Roofing System.

2. MANUFACTURER

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

3. PRODUCT DESCRIPTION

Basic Use – PUMA is an advanced technology premium Poly-Urethane Modified Acrylic roof coating specially designed for new spray-in-place polyurethane foam (SPF).

PUMA combines the best performance of both urethane and acrylic polymers to create a seamless membrane. This single coat system offers excellent adhesion to spray-in-place polyurethane foam and aged Conklin acrylic coatings, along with higher tensile strength, elongation, toughness and dirt pickup resistance than could be expected from any all-acrylic system.

Excellent adhesion to other acrylics for recoat/restore scenarios. PUMA patent-pending technology is tougher and more durable than conventional acrylic roof coatings and requires only one coat. Tensile strength, elongation, dirt pick-up and erosion resistance and mil degradation are all significantly improved.

Composition and Materials

Color:	White
Coverage Rate:	Coverage rates will vary depending on surface condition. Apply at 1.9 gal/square.
Finish:	Low Sheen Flat
Sizes:	5 gallon, 55 gallon drums and 220 gallon tote containers
Conklin Companion Product	Spray polyurethane foam (SPF)

4. TECHNICAL DATA

Chemical Analysis:

Product Properties:	
Resin Type	Acrylic/Urethane
Color	White
Solids	64% by Weight
	53% by Volume
Density	10.9 lbs. /gallon
Thickness	13.5 dry mils
Application temperature	Do not apply at temperatures less than 40° F or during inclement weather

Performance Properties:

Dry time*	2 to 6 hours	
Fire Resistance**	Class "A" (UL 790)	
Elongation	400%	ASTM D-2370
Tensile Strength	495 psi	ASTM D-2370
VOC Content	43 g/L	

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

**Refer to Underwriters Laboratories Roofing Materials and Systems directory for specific fire resistant assemblies or contact Conklin Company Building Products Division.

5. APPLICATION:

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.

PUMA shall not be applied to SPF foam surfaces with a texture of "verge popcorn" "popcorn" or "tree bark".

CONKLIN COMPANY INC. **9** Finishes and special coatings

Mixing and Thinning: PUMA is approved for use over new, spray-in-place polyurethane foam and over aged Conklin acrylic roofing systems. Do not apply at temperatures below 40° F, and during inclement weather, if rain is imminent or when freezing may occur before the product is fully cured. Apply PUMA at a rate of 1.9 gallons per square. Additional information on applications can be obtained through Conklin product services at (800) 888-8838.

Coverage rate: The recommended application rate for PUMA is 1.9 gallons per square (100 ft²). This rate includes 15 percent for application loss and 10 percent for surface texture. This is not an absolute rate, but a starting point to assist in the bidding of a job. Under very irregular roofing substrate conditions, more product may be required. Most importantly, PUMA must be applied in a continuous, unbroken film of a dry thickness of no less than 13.5 mils over the entire roof.

If roofing granules are to be used, they **MUST** be embedded using a second application of PUMA at a rate of one gal/square. Quartz granules at 50 lbs/square.

6. DISPOSAL

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

7. SAFETY

CAUTION:

HARMFUL IF SWALLOWED. MAY CAUSE EYE, SKIN AND RESPIRATORY IRRITATION. Keep out of the reach of children. If spraying, use a NIOSH-approved dust/mist mask.

First Aid: Eyes – immediately flush the contaminated eye(s) with plenty of water, and continue rinsing 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. Immediately obtain medical attention. Skin – wash with soap and water, followed by a thorough rinse. Ingestion – if swallowed, **DO NOT INDUCE VOMITING**, dilute with one to two glasses of water. Immediately contact a Poison Control Center or physician for further instructions. Inhalation – immediately move to fresh air. If skin or respiratory irritation persists, seek medical advice.

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): **43 g/L** (0.36 lbs./gal.)

8. STORAGE

Keep containers tightly closed when not in use. Store in a cool place, above 40° F. **KEEP FROM FREEZING.**

9. CLEAN-UP

While the 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® heavy-duty multipurpose cleaner and water.

10. SPECIFIC PRODUCT GUARANTEE

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 PUMA is free from any defects in manufacturing. This guarantee is limited to replacement of product at the expense of the company when such product proves to be defective in manufacturing. 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 PUMA must be applied in a continuous, unbroken (closed seal) film of a dry thickness of not less than 13.5 mils, with a wet thickness of not less than 26 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 EXPRESSED OR IMPLIED.** This guarantee applies only to the Conklin Independent Business Owner who purchases the product and cannot be extended to any other person.

**Conklin Company Inc.
Building Products Division**

Independent Business Owner