

## 405 Bond-N-Shield (Asphalt Surface Base Coat)

**DESCRIPTION:**

KARNAK 405 Bond-N-Shield is a 100% elastomeric acrylic, co-polymer emulsion, specifically designed as a base coating that will provide excellent adhesion to asphalt surfaces. The coating contains stain blockers that prevent asphalt bleed through thus producing a brighter white coating over these surfaces. Technological advances in the KARNAK laboratory also give this acrylic coating improved water blistering resistance in temporary ponding areas versus traditional acrylic coatings.

**USES:**

405 Bond-N-Shield is intended for use as a base coat prior to the application of 501 Elasto-Brite, 505HS Mohave Coat, 529 Renu-White, 535QS Enviro-Lastic, acrylic topcoats as well as 670HS Karna-Sil Ultra and 670LS Karna-Sil silicone coatings on built-up roof surfaces that have aged a minimum of 90 days and SBS and APP smooth and granular modified membranes that have weathered 30 days.

**SURFACE PREPARATION:**

Surfaces to be coated should be dry, clean, and free of dirt, dust, grease, oil and loose paint. Power wash surfaces with 799 Wash-N-Prep Roof Cleaner and water. Wash roof surfaces with a minimum of 2000 psi., taking all necessary precautions to avoid damage to the roof system. Patch and repair cracks or holes with 505MS Karna-Flex WB and Resat-Mat or Poly-Mat or appropriate sealants or caulking materials. All wet insulation should be removed and replaced with like materials. New BUR roof surfaces must age a minimum of 90 days before coating. SBS and APP modified bitumen membranes should weather 30 days before coating.

**APPLICATION:**

Mix lightly prior to application of the coating. 405 Bond-N-Shield may be applied by brush, spray equipment or roller. For applications in higher temperatures (above 90 °F) KARNAK recommends application in multiple thin coats to prevent trapped moisture problems. Commencement of work by the contractor implies his approval of the deck surface.

**BRUSH / ROLLER APPLICATION:**

Brush / roller application should be done applying the coating in the same direction. Apply the finish coat perpendicular to 405 Bond-N-Shield.

**SPRAY APPLICATION:**

Utilize a standard paint spray pump or airless spray pump. Equipment manufacturer should be consulted for more complete information. Spray application should be done with a 50% over-spray pattern.

**KARNAK**

330 CENTRAL AVENUE, CLARK, NJ 07066

732-388-0300 • 800-526-4236 • FAX: 732-388-9422

WEB: <http://www.karnakcorp.com>

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**COVERAGE RATE:**

Apply 405 Bond-N-Shield over the surface at the rate of 1.5 gallons per 100 sq. ft. Allow dry 6-24 hours then apply the selected finish coating. The total dry mil thickness of 405 Bond-N-Shield and finish coating should be minimum of 20 to 24 mils. Coverage will vary depending on the surface to be coated.

**PHYSICAL PROPERTIES:**

Weight per Gallon:	11.4 lbs.	
Viscosity:	34,000 cps	ASTM D2196 Method A
Solids by Weight:	65%	
Solids by Volume:	53%	
Color:	Light Blue	
Hardness Shore A:	60	
Elongation:	800%	ASTM D2370
Tensile Strength:	249 PSI	ASTM D2370
Tear Resistance:	83 lbf/in	ASTM D624
Weathering:	Excellent	
Permeability:	3.0 Perms	

**CAUTION:**

Do not apply when rain is imminent. Coating must be dried before exposure to water. Store in a heated room and keep container covered when not in use. Do not thin. Keep out of reach of children. Avoid prolonged contact with skin. Dispose of in an environmentally safe manner. Cover air intakes during application and while drying.

COLD-PROCESS SYSTEMS AND COATING, EITHER EMULSION OR SOLVENT BASED, SHOULD ONLY BE INSTALLED ON DECKS WITH POSITIVE DRAINAGE.

PER NRCA, (NATIONAL ROOFING CONTRACTORS ASSOCIATION, "THE CRITERIA FOR JUDGING PROPER SLOPE FOR DRAINAGE IS THAT THERE BE NO EVIDENCE OF STANDING WATER ON THE DECK 48 HOURS AFTER IT STOPS RAINING."

**PACKAGING:**

Available in 5 gallon pails and 55 gallon drums.

**If further information is needed, contact KARNAK Technical Services at 1-800-526-4236.**

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