ROOFING

405 Bond-N-Shield (Base Coat)

KARNAK
THE SEAL OF QUALITY

Read Safety Data Sheet before using this product.

DESCRIPTION: 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 and 529 Renu-White acrylic topcoats, 502 RC-W Elasto-Kote Base or 502 RC-W Elasto-Kote Finish, 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. Meets ASTM D 6083 Type I (For use as a base coat only).

SURFACE PREPARATIONS: Surfaces to be coated should be dry, clean, and free of dirt, dust, grease, oil and loose paint. Recommended application temperature is 40°F to 120°F. 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.

ROLLER / BRUSH APPLICATION: Apply with a 3/4" – 1-1/4" nap roller or soft roof brush.

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.

COVERAGE RATE: Apply 405 Bond-N-Shield over the surface at the rate of 1.5 gallons per 100 sq. ft. (24 wet mils) over smooth surfaces to 2 gallons per 100 sq. ft. (32 wet mils) over granule surfaces. Allow to dry 6-24 hours then apply the selected finish coating. The total cured mil thickness of 405 Bond-N-Shield and finish coating should be 20 to 24 dry mils. Coverage will vary depending on the surface to be coated.

CAUTION: Do not apply when rain is imminent. Protect from freezing. 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. For exterior use only.

Cold-process systems and coatings, 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 a deck 48 hours after it stops raining."

PACKAGING: Available in 5-gallon pails, 55-gallon drums, and 275-gallon totes. .

If further information is needed, contact KARNAK Technical services at 800-526-4236.

PHYSICAL PROPERTIES & SPECIFICATIONS

Weight per Gallon:	11.4 lbs.
Viscosity:	34,000 cps ASTM D2196 Method A
Solids by Weight:	65%, Nominal
Solids by Volume:	53%, Nominal
Color:	Light Blue
Hardness, Shore A:	60
Elongation:	800%, Nominal ASTM D 2370
Tensile Strength:	249 PSI, Nominal ASTM D2370
Tear Resistance:	83 lbs. force/in. ASTM D 624
Permeability:	3.0 perms
Cure Time:	24 to 48 hours@ 77°F and 50% Relative Humidity
Application Temp.:	40°F to 120°F.
Service Temp (Cured Film):	-15°F to 180°F
VOC Content:	45 g/L MAX