

#### Substrates:

Spray Polyurethane Foam (SPF) – Previously Coated

Mastic Type: Karna-Flex WB

Base Coat:

407 EPDM & SPF Base Coat

Finish Coat: 501 Elasto-Brite White

### **APPLICATION GUIDELINES**

The following KARNAK Roof Restoration System is intended to be applied over sound and dry Spray Polyurethane Foam (SPF) roofing systems with positive drainage that have been previously coated.

#### **BENEFITS & ADVANTAGES:**

- System seals flashings and penetrations to form a seamless elastomeric membrane with exceptional elongation and tensile strength properties.
- Substrate specific base coat has excellent adhesion to SPF surfaces.
- 501 Elasto-Brite White is an Energy Star<sup>®</sup> listed reflective coating reduces energy consumption by lowering air conditioning requirements.
- Can provide an energy savings "payback" based on building design, energy consumption needs and insulation levels.
- Application causes no disruption of activities inside building.
- Avoids roof replacement and adds life to the existing roof system.

#### PART 1 - MATERIALS

- 1.1 **799 Wash-N-Prep:** Concentrated liquid TSP substitute specifically designed to clean roof surfaces prior to applying coatings.
- 1.2 **Karna-Flex WB:** An acrylic elastomeric mastic formulated for sealing and repairing seams, flashings, curbs, fasteners, penetrations and general repairs to SPF roofs.
- 1.3 **5540 Resat-Mat:** Spunlaced polyester fabric for reinforcing mastics and coatings over irregular, rough surfaces as well as smooth surfaces.
- 1.4 **407 EPDM & SPF Base Coat:** 100% elastomeric acrylic coating specifically designed as a base coating for improved adhesion to Spray Polyurethane (SPF) roofing membranes and surfaces. The coating produces a film with excellent blister resistance.
- 1.5 **501 Elasto-Brite White:** A highly reflective, elastomeric roof coating exhibiting outstanding color stability, flexibility, mildew resistance and weatherability. Ideally suited for application over substrate specific base coat.

#### PART 2 – APPLICATION:

#### 2.1 General:

A. Read all applicable product data sheets and SDS for appropriate application and preparation guidelines.

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- B. All roof surfaces to be coated should be sound, clean, dry and free of dirt, grease, oil, dust, debris and loose foam.
- C. It is highly recommended that a moisture survey be conducted. If 20% or more of the roof is considered wet this coating system should not be installed. Other reroofing options should be considered. If wet areas encompass less than 20%, all wet insulation and roofing materials should be removed and replaced with like materials prior to coating application.
- D. All areas where the SPF has degraded must be removed and refoamed.
- E. Adhesion of the coatings should be tested over all applicable roof surfaces prior to the system application.

#### 2.2 **Preparation:**

- A. Repair all cracks, splits and holes with Karna-Flex WB and Resat-Mat in a three-course application. Seal all other defective areas that may affect the waterproofing integrity of the existing roof system.
- B. Cut away low handing branches and vegetation that extend onto the roof.
- Power-wash all surfaces to be coated with 799 Wash-N-Prep Roof Cleaner and water maintaining a minimum of 2000 psi.
   Take all necessary precautions to avoid damage to the roof system when power washing.
  - a. Dilute 799 Wash-N-Prep with water at a 16:1 ratio for normal cleaning.
  - b. Apply diluted cleaning agent directly to the roof surface with a Hudson-type sprayer or using a stiff nylon brush by dipping the brush into a bucket of diluted cleaner. Cleaner may also be added in full strength to the detergent reservoir for injection dilution at a 16:1 ratio.
  - c. Rinse all surfaces thoroughly with a heavy duty power washer using clean water to completely remove all residues. Do not allow dirty solution to pool on the roof and dry.
  - d. Allow the roof to completely dry before applying KARNAK coating products.

#### 2.3 Repairs:

A. Seal and repair all voids and cracks in the foam, where new foam joins existing foam, as well as seal all base flashings, roof penetrations and drains with Karna-Flex WB and 5540 Resat-Mat prior to applying coatings.

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- a. Apply Karna-Flex WB in a 1/16' 1/8" thickness by 8" width directly over the area to repair with a 'chip-type' brush.
- b. While still wet, immediately embed 6" wide Resat-Mat into the wet Karna-Flex WB. Use the brush to remove any wrinkles or fishmouths.
- c. Immediately brush apply an additional 1/16" 1/8" thick by 8" wide application of Karna-Flex WB over the embedded Resat-Mat to completely cover the fabric, feathering the Karna-Flex WB out to the roof surface. No fabric should be visible.
- d. Total coverage of Karna-Flex WB in this application is approximately 18-25 lineal feet per gallon.
- e. Allow Karna-Flex WB to cure 24-48 hours before application of the subsequent coating.

#### 2.4 Base Coat Application:

- A. Application of 407 EPDM & SPF Base Coat should take place when temperatures are 40°F-100°F and humidity levels are 85% or less.
- B. Thoroughly mix the 407 EPDM & SPF Base Coat to overcome any settling that may occurred. Mix the product to a homogenous consistency.
- C. Starting at one end of the roof, apply one coat of 407 EPDM & SPF Base Coat at the rate of 1.5-2 gallons per 100 sq.ft. (24-32 wet mils) with a 3/4" nap roller or airless spray equipment. If spray applying be sure to back roll the base coat to achieve maximum adhesion and even coverage.
- D. Apply coating evenly, working in the same direction. Don't overwork the base coat or attempt "touch-ups" while the coating is still wet. Allow base coat to dry 6-12 hours before coating over.
- E. Do not apply if rain is expected within 24 hours after application.

### 2.5 Finish Coat Application:

- A. Application of 501 Elasto-Brite should take place when temperatures are 40°F-100°F and humidity levels are 85% or less.
- B. Thoroughly mix the 501 Elasto-Brite to overcome any settling that may have occurred. Mix the product to a homogenous consistency.
- C. Starting at one end of the roof, apply one coat of 501 Elasto-Brite at the rate of 1.5 gallons per 100 sq.ft. (24 wet mils) with 3/4" nap roller or airless spray equipment. If spray applying be

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- D. Apply the 501 Elasto-Brite perpendicular to the 407 EPDM & SPF Base Coat to achieve an even coverage.
- E. Apply coating evenly working in the same direction. Don't overwork the coating or attempt "touch-ups" while the coating is still wet.
- F. Do not apply if rain is expected within 24 hours after application.
- 2.6 Material List & Coverage Rates:
  - Note: The below listed coverage rates are for estimating purposes only. Actual amounts may vary depending upon the irregularity and porosity of the roof surface, measurements taken and applicator installation.
  - A.
     **799 Wash-N-Prep:** 1 quart per 1,600 sq.ft.

     B.
     Karna-Flex WB:
     18-25 lineal feet per gallon

     C.
     **5540 Resat-Mat:** 6" x 300' per roll

     D.
     **407 EPDM & SPF Base Coat:** 1.5 2 gal. per 100 sq.ft.

     E.
     **501 Elasto-Brite White:** 1.5 gal. per 100 sq.ft.

This specification is based upon information and/or pictures provided to us by the applicator/contractor. KARNAK has not inspected the roof or independently verified any of the information provided. KARNAK is relying solely on the applicator/contractor to determine that the roof structure and condition of the roof makes the roof an appropriate candidate for coating, and that a moisture test or other procedure has been performed to verify that the substrate is not wet. The above specification is offered as a service to the specifier. KARNAK Corporation does not practice architecture nor engineering and recommends that you consult a registered architect, engineer and/or roofing consultant. Accordingly KARNAK disclaims all liability in connection with the use of this specification.

#### KARNAK CORPORATION

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