

## APPLICATION GUIDELINES

### WHITE REFLECTIVE COATING SYSTEM

**Substrates:**

EPDM

**Mastic Type:**

Karna-Flex WB

**Base Coat:**

407 EPDM & SPF Base  
Coat

**Finish Coat:**

501 Elasto-Brite White

The following KARNAK Roof Restoration System is intended to be applied over sound and dry EPDM roofing systems with positive drainage.

**BENEFITS & ADVANTAGES:**

- System seals flashings and seams to form a seamless elastomeric membrane with exceptional elongation and tensile strength properties.
- Substrate specific base coat has excellent adhesion to EPDM surfaces.
- Energy Star® 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.
- Sustainable - Avoids roof replacement and adds life to the existing roof system.

**PART 1 – MATERIALS**

- 1.1 **507 SPC Primer/Wash:** Water-based cleaner designed specifically to safely clean and prepare EPDM roof surfaces for subsequent coatings and mastics.
- 1.2 **Karna-Flex WB:** An acrylic elastomeric mastic for sealing and repairing seams, flashings, curbs, fasteners, penetrations and general repairs to EPDM roofs.
- 1.3 **550 Patch-N-Go Self-Sealing Tape Fleece:** An absorbent fleece fabric with a highly adhesive butyl rubber compound used to seal seams and flashings on single-ply roofs.
- 1.4 **5540 Resat-Mat:** Spunlaced polyester fabric for reinforcing mastics and coatings when sealing seams and flashings on single-ply roofs.
- 1.5 **407 EPDM & SPF Base Coat:** 100% elastomeric acrylic coating specifically designed as a base coating for improved adhesion to EPDM and Spray Polyurethane (SPF) roofing membranes and surfaces. The coating produces a film with excellent blister resistance.
- 1.6 **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.

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## **PART 2 – APPLICATION:**

### **2.1 General:**

- A. Read all applicable product data sheets and SDS for appropriate application and preparation guidelines.
- B. All roof surfaces to be coated should be sound, clean, dry and free of dirt, grease, oil, dust and debris. Do not apply over brittle roof surfaces.
- 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. Adhesion of the coatings should be tested over all applicable roof surfaces prior to the system application.

### **2.2 Preparation:**

- A. All EPDM roof membrane surfaces must be dry and thoroughly cleaned to remove all dirt, dust, talc, rust, oxidation or other contaminants.
- B. Cut away low hanging branches and vegetation that extend onto the roof.
- C. Starting at the low end of the roof, apply 507 SPC Primer/Wash to the entire roof surface in a 3-4' foot arc pattern using an agricultural type sprayer. Apply at the rate of 500 sq.ft. per gallon.
- D. Allow the 507 SPC Primer/Wash to stand for approximately 10 minutes.
- E. Clean EPDM roof with a commercial power washer (2,000-3,000 psi). When cleaning the EPDM, it should be done slowly and close to the surface in order to remove mica and inorganic release agents.
- F. Rinse thoroughly with power washer. The rinse step may be done at a faster pace than the cleaning step. The final rinse water should be clean with no soap bubbles present. Allow roof to completely dry.
  - a. Note: Due to the rinse water possible containing dirt, mold, mildew, algae and diluted 507 SPC Primer/Wash product, do not allow rinse to flow into drains or sewers leading to open bodies of water (lakes, ponds, streams, etc.). Do not dispose of the neat 507 SPD Primer/Wash into drains, sewers, or open bodies of water. Rinse water from downspouts could stain concrete parking

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lots and decks as it flows to municipal drains. Because of this, temporary hoses should be used to direct the rinse water.

### 2.3 Repairs:

- A. Seal and repair all seams, base flashings, roof penetrations, drains, cuts, holes, and splits with either 550 Patch-N-Go Self-Sealing Tape Fleece and Karna-Flex WB or 5540 Resat-Mat and Karna-Flex WB prior to applying coatings.
  - a. Option 1: Using 550 Patch-N-Go Fleece
    - i. Cut desired length of 550 Patch-N-Go Tape, remove release liner and position directly over seam or area to repair.
    - ii. Apply tape directly over the seam or area to repair exactly the first time. Press down firmly with a cloth pad or roller making sure the tape conforms to the roof surface. Smooth the tape working from the center out to the edges. The tape is pressure activated so this step is critical to ensure a tight seal.
    - iii. Apply Karna-Flex WB directly over the tape in a 1/16' thickness by 6" width to completely cover the fleece tape, feathering out to a smooth edge. Apply Karna-Flex WB with a 'chip-type' brush.
    - iv. Total coverage of Karna-Flex WB in this application is approximately 50 lineal feet per gallon.
    - v. Allow Karna-Flex WB to cure 24-48 hours before application of the subsequent coating.
  - b. Option 2: Using 5540 Resat-Mat
    - i. Apply Karna-Flex WB in a 1/16' - 1/8" thickness by 8" width directly over the seam or area to repair with a 'chip-type' brush.
    - ii. While still wet, immediately embed 6" wide Resat-Mat into the wet Karna-Flex WB. Use the brush to remove any wrinkles or fishmouths.
    - iii. 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.

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- iv. Total coverage of Karna-Flex WB in this application is approximately 18-25 lineal feet per gallon.
- v. 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 gallons per 100 sq.ft. 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 White should take place when temperatures are 40°F-100°F and humidity levels are 85% or less.
- B. Thoroughly mix the 501 Elasto-Brite White 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 White at the rate of 1.5 gallons per 100 sq.ft. with 3/4" nap roller or airless spray equipment.
- D. Apply the 501 Elasto-Brite White 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.

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## 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. 507 SPC Primer/Wash:                        | 1 gal. per 500 sq.ft.      |
| B. Karna-Flex WB:                              |                            |
| With 550 Patch-N-Go Tape:                      | 50 lineal feet per gal.    |
| With 5540 Resat-Mat 6":                        | 18-25 lineal feet per gal. |
| C. 550 Patch-N-Go Self Sealing<br>Tape Fleece: | 4" x 65.5' per roll        |
| D. 5540 Resat-Mat:                             | 6" x 300' per roll         |
| E. 407 EPDM & SPF Base Coat:                   | 1.5 gal. per 100 sq.ft.    |
| F. 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.

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