

RESTORATION  
COATING SYSTEM

**Substrate:**

Coal Tar with Gravel

**Mastic Type:**

170 Tar Cement

**Coating:**

168 Tar Roof  
Resaturant

## APPLICATION GUIDELINES

The following KARNAK Roof Restoration System is intended to be applied over sound, dry, existing gravel covered coal tar pitch roofing systems.

### BENEFITS & ADVANTAGES:

- Heavy-duty coal tar pitch based coating.
- Provides long lasting, weather-resisting protection.
- Avoids roof replacement and adds life to the existing coal tar roof system.
- Application causes no disruption of activities inside building.

### 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 **170 Tar Cement:** Tar-based, plastic cement with unique water repellent characteristics for sealing and repairing splits, cracks, holes and blisters on built-up coal tar 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 **168 Tar Roof Resaturant:** Heavy-duty, coal tar pitch based coating that helps rejuvenate old coal tar, fill in cracks and provide a thick layer of new coal tar pitch to protect the roof and serve as a binder for the replacement of gravel.

### 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, debris and gravel. Do not apply over brittle roof surfaces.
- C. Remove all loose gravel by power vacuuming or power brooming.
- D. 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.

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- 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, holes and large blisters with 170 Tar Cement 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 hanging branches and vegetation that extend onto the roof.
- C. 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 cracks, splits, holes and blisters with 170 Tar Cement and 5540 Resat-Mat prior to applying coating.
  - a. Scape area clean to remove all gravel.
  - b. Apply 170 Tar Cement in a 1/16" - 1/8" thickness by 8" width directly over the area to repair with a trowel.
  - c. While still wet, immediately embed 6" wide Resat-Mat into the wet 170 Tar Cement.
  - d. Immediately trowel apply an additional 1/16"-1/8" thick by 8" wide application of 170 Tar Cement over the embedded Resat-Mat to completely cover the fabric, feathering the 170 Tar Cement out onto the roof surface. No fabric should be visible.
  - e. Total coverage of 170 Tar Cement in this application is approximately 18 - 25 lineal feet per gallon.
  - f. Allow 170 Tar Cement to cure 24-48 hours before application of subsequent coating.

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### 2.4 Coating Application:

- A. Application of the 168 Tar Roof Resaturant should take place when temperatures are 40°F-100°F and humidity levels are 85% or less.
- B. Mix 168 Tar Roof Resaturant thoroughly just prior to using. Ensure product is mixed to a homogenous consistency.
- C. Starting at one end of the roof, pour directly from the container and spread with a roof brush at the rate of 7 to 8 gallons per 100 sq.ft.
- D. Apply the coating evenly and brush in all directions to force the coating in cracks and crevices.
- E. If applying by spray, use a standard mastic pump and apply in one coat with a 50% overlap of the spray pattern to obtain a uniform and continuous film.
- F. After application of 168 Tar Roof Resaturant is completed, standard gravel (no pea-size gravel) should be applied at the rate of 400 lbs. per 100 sq.ft.

### 2.5 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. <b>799 Wash-N-Prep:</b>         | 1 quart per 1,600 sq.ft.     |
| B. <b>170 Tar Cement:</b>          | 18-25 lineal feet per gallon |
| C. <b>5540 Resat-Mat:</b>          | 6" x 300' per roll           |
| D. <b>168 Tar Roof Resaturant:</b> | 7-8 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 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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