

APPLICATION GUIDELINES

ELASTOMERIC COATING SYSTEM

Substrate:

BUR with Gravel

Mastic Type:

**229AR Elastomeric
Trowel Grade**

Primer:

108 Asphalt Primer

Coating:

**229AR Elastomeric
Brush Grade**

The following KARNAK Roof Restoration System is intended to be applied over sound, dry, existing gravel covered built-up roofing with positive drainage.

BENEFITS & ADVANTAGES:

- Tough, flexible elastic, rubber-like film with excellent weather resistance.
- Avoids roof replacement and adds life to the existing roof system.
- Application causes no disruption of activities inside building.
- Primer penetrates to revitalize the base surface.
- Rubberized asphalt coating covers weathered and cracked surfaces.

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 **229AR-Elastomeric Trowel Grade:** A single component, SBS rubber reinforced asphalt mastic for sealing and repairing flashings, curbs, fasteners, penetrations and general repairs to inactive 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 **108 Asphalt Primer:** General purpose, penetrating asphalt primer that penetrates pores to revitalize the base surface for subsequent coatings to be applied.
- 1.5 **229AR-Elastomeric Brush Grade:** A single component, SBS rubber reinforced asphalt which forms a highly elastomeric roof coating barrier.

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 loose gravel. Do not apply over brittle roof surfaces.
- C. Remove all loose gravel by power vacuuming or power brooming.
- D. If existing gravel is to be reused, it must be washed free of dirt and silt.

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- E. 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. New cold-applied modified bitumen roofs should weather 90-180 days before installing coating system. New BUR roofs should also age 90-180 days unless special considerations are taken.
- F. 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 229AR Elastomeric Trowel Grade 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 base flashings, roof penetrations, drains, cracks, holes, large blisters and splits with 229AR Elastomeric Trowel Grade and 5540 Resat-Mat prior to applying coating.

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- a. Apply 229AR Elastomeric Trowel Grade in a 1/8" thickness by 8" width directly over the area to repair with a trowel.
- b. While still wet, immediately embed 6" wide Resat-Mat into the wet 229AR Elastomeric Trowel Grade. Use the brush to remove any wrinkles or fishmouths.
- c. Immediately trowel apply an additional 1/8" thick by 8" wide application of 229AR Elastomeric Trowel Grade over the embedded Resat-Mat to completely cover the fabric, feathering the 229AR Elastomeric Trowel Grade out to the roof surface. No fabric should be visible.
- d. Total coverage of 229AR Elastomeric Trowel Grade in this application is approximately 18 lineal feet per gallon.
- e. Allow 229AR Elastomeric Trowel Grade to cure 48-72 hours before application of subsequent coating.

2.4 Primer Application:

- A. Application of 108 Asphalt Primer should take place with temperatures are 40°F-100°F and humidity levels are 85% or less.
- B. Prime entire roof surface with 108 Asphalt Primer at the rate of 0.5 to 1 gallon per 100 sq.ft., depending on the porosity and irregularity of the surface.
- C. Apply 108 Asphalt Primer by roof brush or airless spray equipment.
- D. Allow primer to cure 8-10 hours before applying subsequent coatings.

2.5 Coating Application:

- A. Application of the 229AR Elastomeric Brush Grade should take place when temperatures are 40°F-100°F and humidity levels are 85% or less.
- B. Mix 229AR Elastomeric Brush Grade 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 one coat of 229AR Elastomeric Brush Grade 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 229AR Elastomeric Brush Grade is completed, standard gravel (no pea-size gravel) should be applied at the rate of 400 lbs. per 100 sq.ft.

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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.

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|---|---------------------------|
| A. 799 Wash-N-Prep: | 1 quart per 1,600 sq.ft. |
| B. 229AR Elastomeric Trowel Grade: | 18 lineal feet per gallon |
| C. 5540 Resat-Mat: | 6" x 300' per roll |
| D. 108 Asphalt Primer | 0.5-1 gal. per 100 sq.ft. |
| E. 229AR Elastomeric Brush Grade: | 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.

KARNAK CORPORATION

330 Central Avenue Clark, NJ 07066 • 800.526.4236 • Fax 732.388.9422
www.karnakcorp.com

Manufacturing: Ft. Lauderdale, FL • Chicago, IL • Kingman, AZ
Warehouses: Dallas, TX • Rancho Cucamonga, CA • Tukwila, WA