



KARNAK 670 SILICONE (High Solids) GUIDE SPEC RUSTED METAL OR RUSTED AREAS ROOFS

STEP 1: SUBSTRATE PREPERATION:

- 1.0: All surfaces to be coated should be dry, clean, and free of dirt, dust, grease, oil and loose rust or coating.
- 1.1: RUSTED Metal surfaces must be wire brushed down to clean and stable surface.
 - 1.1a: Wash roof surfaces with a minimum of 2000 psi. Take all necessary precautions to avoid damage to the roof system.
- 1.2: Power wash surfaces with 799 Wash-N-Prep Roof Cleaner and rinse with water.

STEP 2: SEAMS/FASTENERS:

- 2.0: Patch and repair all seams, flashings, damaged areas, leak and cracks with Karna-Flex Caulk, Karna-Flex WB Acrylic Mastic, 550 Patch-N-Go self-sealing tape or, appropriate sealants or caulking materials.
- 2.1: Apply Karna-Flex by brush or caulking gun in the following manner:
 - 2.1a: (**Option 1**): Horizontal Seams and Cracks 1/16" wide or larger.
 - Using Karnak 550 Patch-N-Go Fleece Self Sealing T
 - Apply Karna-Flex at an average thickness of 1/16" to completely cover the polyester face of the tape and feather out.
 - 2.1b: (**Option 2**): Using Karnak Resat-Mat, apply Karna-Flex at an average thickness of 1/16" to completely cover the crack. Immediately embed one layer of Resat-Mat and cover with another application of Karna-Flex. Make sure to smooth the fabric out completely and cover.
- 2.2: Product will cure within approximately 24 hours. If continuing with 502 Elasto-Kote System is desired, allow all repairs to cure before proceeding.

STEP 3: PRIMER APPLICATION:

- 3.0: 180 Karna-Sil Epoxy Primer is a two component Primer, Part A & Part B.
- 3.1: Individually mix 180 Karna-Sil Epoxy Primer Part "A" and 180 Karna-Sil Epoxy Primer Part "B".
- 3.2: Combine both Part A and Part B and mechanically mix thoroughly.
- 3.3: Do not use material that has been mixed for 4 hours or more.
- 3.4: Apply at the average rate of 200-300 sq.ft. per gallon on smooth surfaces.
 - 3.4a: For application over smooth surfaces add up to one pint of water per gallon of mixed 180 Karna-Sil Epoxy Primer.
 - 3.4b: Porous or irregular surfaces will require additional primer.

3.4c: Note that applying too much primer will reduce the adhesion strength.

3.5: Apply with a nylon brush, 1/4" to 3/8" nap roller or airless spray equipment.

STEP 4: BASE COAT APPLICATION:

4.0: Apply 670HS Karna-Sil Ultra over primer as soon as it has thoroughly set, which is normally 2-3 hours (dependent upon temperature and humidity). Best adhesion is achieved when coated over in 1-3 days. May be coated over for up to 7 days after application.

4.0a: Once product is mixed, the entire container should be used.

4.1: Mix coating prior to application:

Mix with a 3" diameter mixer when using a 5-gallon pail. Or,

Mix with a 6" diameter mixer when using a 55 gallon drum.

4.1a: Apply at temperatures 50°F and rising.

Do not apply if rain is expected within 24 hours after application.

4.2: Apply 670HS Karna-Sil Ultra at the rate of 1.25 gallons per 100 sq.ft. (20 wet mils). Allow to cure 2-8 hours before applying second (Finish) coat (dependant upon temperature and humidity).

4.2a: 670HS Karna-Sil Ultra may be applied by brush, roller or airless spray equipment.

Commencement of work by the contractor implies his approval of the roof surface.

4.3: Subsequent coats should be applied within 24 hours of prior applications to insure uniform Adhesion.

STEP 5: FINISH COAT APPLICATION:

5.0: Apply 670HS Karna-Sil Ultra Finish Coat over Base coat as soon as it has thoroughly set, which is normally 2-3 hours (dependent upon temperature and humidity). Best adhesion is achieved when coated over in 1-3 days. May be coated over for up to 7 days after application.

5.1: Apply 670HS Karna-Sil Ultra at the rate of 1.25 gallons per 100 sq.ft. (20 wet mils). Allow to cure 2-8 hours and within 24 hours of applying additional (Finish) coat(s) to insure uniform adhesion (dependant upon temperature and humidity).

5.1a: **(Optional):** To improve aesthetics, impact resistance and toughness of the coating, ceramic roofing granules should be applied immediately into the top coat after application. Back-roll granules in, allow coating to cure then blow off or vacuum loose granules.

5.2: Applied coating film should be even and free of pinholes. Coverage will vary depending on the surface to be coated.

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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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