

# 502MS Karna-Flex

**DESCRIPTION:**

KARNAK 502MS Karna-Flex is an elastomeric, thermoplastic-rubber mastic formulated for use on properly prepared metal roofs as well as concrete, EPDM, TPO, Hypalon, EP, most PVC membranes, BUR asphalt roofs, modified bitumen roofs, spray polyurethane foam and plywood roof substrates. Its ease of application, superior adhesion, elasticity and durability make 502MS Karna-Flex an ideal repair sealant. Available in a brush mastic or caulking cartridge.

**USES:**

502MS Karna-Flex's elastomeric properties make it an excellent sealant for prepared metal, concrete, BUR asphalt roofs, modified bitumen roofs, spray polyurethane foam and plywood roof system details. Ideal for sealing and waterproofing metal roof seams and splits, gutters, fasteners, pinholes in metal, flashing and curb details. Also use to seal around skylights, penetrations and roof top equipment. May be applied to wet or dry surfaces.

**FEATURES, BENEFITS AND ADVANTAGES:**

1. One component—no need to intermix with other materials.
2. Easy application by brush or caulking gun.
3. Superior film—forms a durable, weather resistant elastomeric membrane.
4. Superior adhesive and cohesive strength.
5. Low temperature flexibility—specially selected polymers and resins impart superior low temperature properties to the coating.
6. Adheres to wet or dry surfaces.

**SURFACE PREPARATION:**

All surfaces to be sealed must be clean, dry and free from oil, grease and other foreign matter. Recommended application temperature is 40°F to 120°F. Excess water should be removed, if possible, before application.

**APPLICATION:**

Apply 502MS Karna-Flex by brush or caulking gun in the following manner:

1. Horizontal Seams and Cracks 1/16" wide or larger. Using 550 Patch-N-Go Fleece Self Sealing Tape, adhere tape to crack as directed per production application guidelines. Apply 502MS Karna-Flex at an average thickness of 1/16" to completely cover the polyester face of the tape and feather out.

**KARNAK**

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- Or, using 5540 Resat-Mat, apply 502MS 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 502MS Karna-Flex. Make sure to smooth the fabric out completely and cover. Product will cure within approximately 24 hours. If continuing with 502 Elasto-Kote System is desired, allow all repairs to cure before proceeding.

**PHYSICAL PROPERTIES:**

Weight per Gallon:	9.5 lbs. – ASTM D1475
Solids by Weight:	64%
Solids by Volume:	52%
Color:	White, Black & Gray <i>(Gray is special order only full skids only)</i>
Tensile Strength:	68 psi (nominal) - ASTM D2370
Elongation:	913% (nominal) - ASTM D2370
Reflectance:	83% - ASTM D2824 (White)
Accelerated Weathering:	Pass – ASTM G155 after 1,000 hrs.
Firm Set:	Pass – ASTM D2939
Resistance to Water:	Pass – ASTM D2939
Low Temp Flex	-40°F
ASTM C734:	No cracking/pass
Recovery:	75% min.
Maximum Shrinkage:	25%
VOC:	Please visit <a href="http://www.karnakcorp.com">www.karnakcorp.com</a> for latest VOC content as products are updated to comply with the most current VOC regulations

**NOTE:**

502MS Karna-Flex White is not recommended for use over asphaltic substrates due to the likelihood of asphalt bleed through. Recommended to use 502MS Black over these types of substrates. PVC and TPO roofs should at least be 4 years old before using this product. Due to differences in TPO and PVC membrane formulas and installation specifications, variations exist which can affect how coatings may bond or behave over an existing membrane. Some membranes may wrinkle after application. This condition generally relaxes over time as the membrane weathers and the solvents evaporate. In addition, some PVC membranes may release plasticizers that can soften the applied coating. Applicators should perform in-field adhesion testing and compatibility testing to determine the appropriateness of the coating and confirm desired results.

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**CAUTION:**

Do not use near open flame. Material is for building exterior applications only. Avoid breathing solvent fumes and prolonged contact with skin. Do not take internally. If swallowed, do not induce vomiting. Call a physician immediately. KEEP OUT OF REACH OF CHILDREN. Keep container covered when not in use. Do not thin. Dispose of in an environmentally safe manner. Cover air intakes during application and while drying.

COLD-PROCESS SYSTEMS AND COATINGS, EITHER EMULSION OR SOLVENT BASED, SHOULD ONLY BE INSTALLED ON DECKS WITH POSITIVE DRAINAGE. PER NRCA (NATIONAL ROOFING CONTRACTORS ASSOCIATION), "THE CRITERIA FOR JUDGING PROPER SLOPE FOR DRAINAGE IS THAT THERE BE NO EVIDENCE OF STANDING WATER ON THE DECK 48 HOURS AFTER IT STOPS RAINING".

**PACKAGING:**

502MS Karna-Flex:	3 Gallon Buckets
	30 oz. Caulking Cartridges (White Only)

If further information is needed, contact **KARNAK Technical Services at 1-800-526-4236.**

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