

# ROOFING

## 502MS Karna-Flex



**\*Read Safety Data Sheet before using this product.\***

**DESCRIPTION:** 502MS Karna-Flex is an elastomeric, thermoplastic-rubber mastic. Its ease of application, superior adhesion, elasticity and durability make 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, asphalt, spray polyurethane foam and plywood roof system details. Ideal for sealing and waterproofing cracks and splits on BUR and modified bitumen asphalt roofs, metal roof seams and splits, EPDM, TPO and PVC seams as well as 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. PVC and TPO roof surfaces should be at least 4 years old prior to application.

### 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
6. Adheres to wet or dry surfaces

**SURFACE PREPARATIONS:** All surfaces to be sealed should be clean, dry, and free from oil, grease, and other foreign matter. However, mastic may be applied to wet surfaces, but excess water should be removed, if possible, before application. Recommended application temperature is 40°F to 120°F.

**APPLICATION: General Repairs:** Apply 502MS Karna-Flex by brush or caulking gun. For sealing flashings and lap seams use fabric reinforcement between layers of 502MS Karna-Flex. Apply sealer in a 1/16” to 1/8” width then immediately embed 5540 Resat-Mat fabric into the wet coating. Smooth out fabric then apply another layer of sealer. **Metal Roofing Repairs:** For horizontal seams and cracks 1/16” wide or larger, 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. Apply caulking directly in and over cracks using appropriate caulking gun.

**COVERAGE RATE:** 502MS Karna-Flex is typically applied in a 1/16” to 1/8” thickness depending upon the substrate which equates to a coverage rate of 4 to 8 gallons per 100 sq. ft. When sealing cracks and joints apply in two applications with fabric reinforcement.

Coverage Rates with Fabric Reinforcement: Approximate		
Fabric Width	4"	6"
If Mastic Applied at <b>1/16" thick</b> , two applications (Lineal Feet per Gallon)	25'	18'
If Mastic Applied at <b>1/8" thick</b> , two applications (Lineal Feet per Gallon)	12'	9'
<b>Fastener Coverage:</b>		
Place a dollop (swirl coat) over exposed fasteners. Approximate coverage rate is 250 fasters per gallon		
<b>Caulking Cartridge:</b>		
A 1/4" x 1/4" bead will yield approximately 75 lineal feet per 30-oz. cartridge.		

**CAUTION:** Do not use near open flame. 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. Coating must be dried before exposure to water. Store in a heated room and 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. For exterior use only.

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 a deck 48 hours after it stops raining."

**NOTE:** 502MS Karna-Flex White is not recommended for use over asphaltic substrates due to the likelihood of asphalt bleed through. For this reason, 502MS Karna-Flex Black is recommended over these types of substrates. PVC and TPO roofs should at least be 4 years old before using this product.

**PACKAGING:** Available in 3-gallon buckets, 30-oz. caulking cartridges (White Only)

If further information is needed, contact KARNAK Technical services at 800-526-4236.

### PHYSICAL PROPERTIES & SPECIFICATIONS

Weight per Gallon: 9.48 lbs.

Solids by Weight: 66%, Nominal

Solids by Volume: 57%, Nominal

Color: White, Black, Gray

Elongation: 913%, Nominal  
ASTM D412

Tensile Strength: 168 PSI, Nominal  
ASTM D412

Reflectance: 83%  
ASTM D2824 (White)

Accelerated Weathering: Pass/No Cracks -  
ASTM G155 after 1,000 hrs.

Firm Set: Pass – ASTM D2939

Resistance to Water: Pass – ASTM D2939

Firm Set: Pass – ASTM D2939  
24 hours @ 77°F and  
50% Relative Humidity

Application Temp.: 40°F to 120°F

Service Temp (Cured Film): -15°F to 180°F

VOC Content: <490 g/L MAX

Tested in compliance with FBC (HVHZ)  
TAS 139

