



# Product Specifications

# Metal 1-kote

### Product Benefits

Metal 1-kote is a natural agricultural oil-based, rustproof, single application direct-to-metal coating. Metal 1-kote's biobased formula is VOC compliant, has built-in resistance to mold, mildew and ultraviolet light attack. The high build, non-sagging formula has excellent adhesion and flexibility and fast surface drying characteristics.



### Product Features

100% waterproof. One coat coverage. Natural oil-based. Seals rust with no priming. Resistant to mold, mildew and ultraviolet light attack. Smooth, semi-gloss finish. ENERGY STAR® qualified roof coating. Listed in the USDA BioPreferred<sup>SM</sup> product catalog. Metal 1-kote is rated by the Cool Roof Rating Council (CRRC). Standard color is white. Factory standard and custom colors are available. Can be painted when dry. Metal 1-kote is available in gallons, 5-gallon pails and 55-gallon drums.

### Application

#### Recommended for:

Galvanized steel, Galvalume, weathered pre-painted metal, tin, copper, aluminum, carbon steel, acrylic coatings in good condition, aged fiberglass, weathered EPDM, weathered plastic. *Do not use on TPO, Kynar metal panels, fresh tar and asphalt or any unsound surface. Before coating ANY roof, always do a test patch to check for compatibility, adhesion and soundness.*

#### Tools

- Airless spray:** 4000 psi min. 1/2" hose min. 0.025 - 0.039 inch orifice reversible tip
- Reduction:** Do not reduce
- Brush:** Natural, nylon or polyester bristle
- Roller:** Smooth foam roller

#### Approximate Coverage Rates Per Gallon

Recommended Spreading Rate: 30-40 mils wet  
Coverage: 30-40 sq. ft. per gallon  
*When estimating amount needed, always allow for roof stretch factor (square footage + corrugation/seam profile footage). Allow extra*

*material when coating rusted surfaces.*

Coverage rates are given in good faith by TKO Waterproof Coatings and should be used as an estimate only. Actual coverage rates will vary due to the individual nature of each application. Therefore, TKO Waterproof Coatings is not responsible for any variance between estimated and actual coverage rates.

### General Application Guidelines

**Preparation:** Mix product thoroughly before using. If skin forms on surface of coating, cut skin carefully and remove completely before stirring and using product. DO NOT THIN. Product warranty is voided if product is altered in any way. Keep tightly sealed after opening to prevent skin formation, stir again before each use. Store at 40°F to 85°F. Can be factory-tinted or painted to match surrounding surfaces. Power-wash surface with a water pressure washer up to 3000 psi. Insure that the surface is clean and free of dirt, grease, oil and debris. Remove all mold and mildew. Remove all loose or poorly adhered coatings. If roof was previously coated or patched with an aluminum or asphaltic coating, prime surface with Primer-kote prior to applying Metal 1-kote. Make sure previous coating is firmly adhered before applying Metal 1-kote.

**Patching:** Patch all seams, breaks, leaks and problem areas with Metal 1-patch and Tuffglass Fabric before coating. Replace worn or rusted fasteners.

**Priming:** Some substrates may require priming of the surface with Primer-kote prior to coating. Contact factory for product specification sheet and more information.

**Application:** Mix product thoroughly before using. Do not thin. Product warranty is voided if product is altered in any way. Keep lid tightly sealed after opening to prevent skin formation, stir again before each use. If skin forms, remove completely prior to mixing. Apply one thick coat at 30 to 40 wet mils. *Always use a wet film gauge to ensure the proper mil thickness has been applied.* Temperature range for application: 40° F to 100° F for air, surface and material with a maximum humidity of 85%. Keep material at 72° F to 100° F for best spread rate.

**Drying time:** Initial skin forms in two to four hours; develops thicker set skin in 24 to 48 hours in good drying conditions (72° F and 50% humidity). Final dry time will vary based on ambient temperature, weather conditions, relative humidity, application thickness, air

movement and precipitation. Avoid all foot traffic until fully cured. *Suitable for occasional/maintenance foot traffic only. Do not use on decks or high traffic areas.*  
**Clean-up:** Clean tools immediately with mineral spirits or paint thinner. Dispose of containers properly.

**Technical Information**


Biobased content: minimum 31% (ASTM D 6866-04)  
 Mold, algae, bacteria resistance: No growth  
 Flash point greater than 140° F.  
 Non-toxic when cured.  
 VOC compliant, less than 250 grams per liter.  
 No hazardous disposal requirements. Check with all local, state and federal regulations before disposing.  
 Shelf life: two years in unopened can. Store at 40 to 85° F for maximum in-can stability.  
 Solids contents: 80%.  
 Weight per gallon: 10.5#  
 Fire rating: Class A over non-combustible substrate (ASTM E-84-04).  
 Non-ozone producing. Non-ozone depleting.  
 Biodegradable.

**Cautions**

Combustible - keep away from heat and flame.  
 Contains mineral spirits. Keep out of reach of children.  
 Do not smoke when using product. Avoid prolonged exposure with skin and breathing of vapor or spray mist. Do not take internally. Before smoking or eating and after using, cleanse hands thoroughly. Close container tightly after each use. Use only with adequate ventilation. See the Material Safety Data Sheet (MSDS) for additional safety information.

**Warranty**

Information is given in good faith, to be used as a guide only and does not assure product suitability for an intended purpose or application. Product is guaranteed to be free of defect. Warranty is limited to replacement of that portion of product proven to be defective. For complete warranty information, contact manufacturer.

		<b>Initial</b>	<b>Weathered</b>
	<b>Solar Reflectance</b>	<b>78.20</b>	<b>Pending</b>
	<b>Thermal Emittance</b>	<b>.830</b>	<b>Pending</b>
	Rated Product ID	0722-0002	
	Licensed Manufacturer ID	0722	
	Classification	Coatings	
<small>Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary. Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</small>			

**Listed in the USDA BioPreferred<sup>SM</sup> product catalog**

