# *PRODUCT DATA SHEET:* CERAM-KOTE® 426

**Description:** CeRam-Kote® 426 is a ceramic coating engineered to provide corrosion protection in water service, designed as a barrier coat in conjunction with Coppercoat anti-fouling as well as a potable water coating**.** CeRam-Kote® 426 is highly modified resin system has been loaded with a unique package of ceramic particles to enhance performance.

# TECHNICAL DATA

**Volume Solids:** 100%

**VOC:** zero

**Number of Coats:** Two Coats (each coat 8-10 mils, 200-250 microns)

**Dry Film Thickness:** CeRam-Kote® 426 should be applied holiday-free at a minimum of 16 mils (400 microns) with a preferred thickness of 20 mils (500 microns).

**Surface Preparation:** Bonding strength depends on proper preparation of the surface to be protected for long-term performance of the product. The substrate should be free of oil, grease and salt/chloride contamination. Specifications call for a white metal (NACE 1, SSPC-SP5, Swedish Standards SA-3) finish with a 1-2.5 mil (25-62.5 microns) anchor profile. Surface preparation should be no less than a near white (NACE 2, SSPC-SP10, Swedish Standards SA 2½) finish. Cleanliness is the most important step to produce a coated surface that will perform and last. Call CERAM-KOTE® COATINGS INCORPORATED for surface preparation recommendations of materials such as aluminum, brass, plastic, fiberglass and/or concrete.

**Mixing Ratio:** Two (2) parts of Part A to one (1) part of Part B by volume
Two (2) parts of Part A to one (1) part of Part B by weight

**Mixing:** CeRam-Kote® 426 ceramic particles must be placed into full suspension with the resin prior to application. CeRam-Kote® 426 is packaged in two cans, Part A (resin and ceramics) and Part B (curing agent). Shake Part A (coating) with a Cyclone air-powered shaker or mix Part A until all ceramic powders are suspended in the resin. Time required to place ceramics into suspension varies according to temperature and length of material storage time. At 72°F (22.2°C), generally a four (4) to six (6) minute shake will place the ceramic powders into suspension. **Regardless of time needed, shake all ceramic material into suspension prior to proceeding.** Failure to properly mix will keep CeRam-Kote® 426 from performing or curing properly. Check the can to assure all solids are in suspension prior to proceeding to the mixing step.

Combine Part A (coating) and Part B (curing agent) and shake again until both parts are thoroughly mixed (***when mixing quart cans only, pour Part A into Part B.*** Shaking time is temperature dependent, but a two (2) to four (4) minute shake at 72°F (22.2°C) should thoroughly mix the components. **However, caution must be used to prevent heat buildup.** No induction time is needed before application.

**Pot Life & Shelf Life:** Pot life for CeRam-Kote® 426 at 72°F (22.2°C) is approximately 30 minutes. Colder temperatures will increase the pot life and warmer temperatures will decrease the pot life. Keep cans out of direct sunlight to prevent heat buildup. Preferred storage/usage is a dry enclosed area under 85°F (29°C). Shelf life is two (2) years.

**Thinning:** Thinning is not recommended.

**Application:**

An airless sprayer with a minimum 33:1 ratio is recommened. **The air source must be dry.** Use reversible carbide tip with orifice size of 0.019-0.021 inches. If applying with roller, use short nap, such as 1/4" (.244 mm). Brush application is also an option.

After thoroughly stirring CeRam-Kote® 426, strain it with a standard paint strainer and pour CeRam-Kote® 426 into the spray equipment.

Apply a first pass of eight (8) to ten (10) mils (200-250 microns) WFT. At 72°F (22.2°C), 30-40 minutes is sufficient time for waiting for first pass to set. Apply a second pass of eight (8) to ten (10) mils (200-250 microns) for a total DFT of sixteen (16) to twenty (20) mils (400-500 microns) DFT. Cure time is temperature dependent.

Apply additional mils without incurring runs or sags if the finished product requires thicker coverage. Whenever possible, apply second coat in a cross-coat method.

When using for potable water:
Max Use temperature = 23°C
Max Product Surface Area/Water Volume Application, $cm^2/L$ = 67.7
For use with 200 gallon tanks or greater and pipe diameter of 24" or greater, not exceeding a surface area to volume ratio of 67.7 $cm^2/L$

**Climate:**

Use CeRam-Kote® 426 only if the substrate temperature and ambient air temperature is above 40°F (4.4°C). No coating should be permitted when substrate is wet from rain or dew, when surfaces are less than five degrees Fahrenheit (three degrees Celsius) above the dew point and holding or when relative humidity is greater than 85%. Moisture will inhibit the catalyst reaction and CeRam-Kote® 426 will not cure or perform properly.

**Holiday Detection:**

CeRam-Kote® 426 is classified as a thin-film coating and should be tested for defects and holidays using a high voltage holiday detector.

**Repairs:**

If application of the coating is less than seventy-two (72) hours old and has not been exposed to contamination, repair by wiping with Acetone or MEK and then re-apply CeRam-Kote® 426. If contaminated or more than 72 hours old, first sand with appropriate grit sandpaper, then repeat repair process.

**Cleanup:**

Purge and clean spray equipment within thirty (30) minutes of the final spray. Flush equipment with Acetone or MEK until solvent sprays clear. Disassemble and clean equipment to manufacturer's recommendations. Material left in spray equipment will solidify and damage equipment. Use precautionary measure applicable to any catalyzed material.

**Safety:**

See individual product label for safety and health data. A Material Safety Data Sheet is available upon request.

Revised 2.12.19