



## **PRODUCT DATA SHEET: CERAM-THANE 300**

**Description:** CeRam-Thane 300 is a two-component catalyzed polyester polyurethane engineered to provide color and gloss retention, abrasion and impact resistance, and flexibility along with a high degree of resistance to most environments. It is recommended as a topcoat for CeRam-Kote ceramic epoxy coatings when color and gloss retention is important.

**Suggested Uses:**

Tank Exteriors, Externals of Tank Cars, Structural Steel, Chemical Plants, Pulp and Paper Mills, Bridges, Petroleum Refineries, Offshore Platforms, Fertilizer Field Equipment and Plants, Topcoat for Floors.

### **TECHNICAL DATA**

- Volume Solids:** 53%, depending on color
- VOC:** 3.8 lbs/gal (466 g/l)
- Number of Coats:** One
- Dry Film Thickness:** Recommended film thickness is 1-3 mils (25-75 microns)/coat DFT
- Cure Time:** To Handle: 20 hours at 55°F (12.8°C), 6 hours at 75°F (23.9°C), 2-3 hours at 95°F (35°C), Full hardness after 7 days at 75°F (23.9°C)
- 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 contaminations. Cleanliness is the most important step to produce a coated surface that will perform and last. If used as a topcoat for CeRam-Kote epoxy coatings or if CeRam-Thane 300 is topcoated over itself, the first coat must not be completely cured or adhesion will be very poor. Recommended maximum topcoat time for CeRam-Thane 300 to be applied over itself is 24 hours at 55°F (12.8°C); 10-12 hours at 75°F (23.9°C); 4 hours at 95°F (35°C). Do not coat when temperature is within 5 degrees F of the dew point. Excessively humid air contacting the surface before it has cured may result in a non-glossy finish. Poor cure will result if the coating is cured at temperatures below 40°F (4.4°C). If dew or moisture comes in contact with the surface before it is cured, loss of gloss will result.
- Mixing Ratio:** Two (2) components Part A (base) to one (1) component Part B (curing agent) by volume.
- Mixing:** CeRam-Thane 300 is a two component product and requires thorough mixing before use. Pour CeRam-Thane 300 Part B (curing agent) into CeRam-Thane 300 Part A (base). Shake with an air-powered shaker or mix with a paddle mixer two (2) to three (3) minutes or until thoroughly mixed.
- Pot Life & Shelf Life:** Pot life for CeRamThane 300 is 12 hours at 55°F (12.8°C), 3-4 hours at 75°F (23.9°C), 1-2 hours at 95°F (35°C). CeRam-Thane 300 is best used within one year. Preferred storage is a dry enclosed area under 85°F (29.4°C).

- Application:** Spray apply for best results using conventional or airless. **The air source must be dry.** Conventional air equipment: Binks 19, 62, 18 or 7; Devilbiss JGA or MBC fluid tip 0.048 to 0.065; air cap 7-13 CFM, fluid hose 3/8" diameter, pot pressure 5-30 psi, atomization pressure 40-60 psi, Airless sprayer: 30:1 or more airless pump equipped with agitator, orifice 0.015-0.021, tip angle 40-60 degrees, pressure 2800-3000 psi; hose 3/8" high pressure.
- Thinning:** Recommended thinners are CeRam-Kote Thinner 4 or CeRam-Kote Thinner 5.
- Climate:** Use CeRam-Thane 300 only if the substrate and temperature is above 40°F. No coating should be permitted when the substrate is wet from rain or dew, when surface are less than 5 degrees F (3 degrees C) above the dewpoint and holding or when relative humidity is greater than 85%. Moisture will inhibit the catalyst reaction and CeRam-Thane 300 will not cure or perform properly.
- Holiday Detection:** CeRam-Thane 300 is classified as a thin-film coating and should be tested for defects and holidays using a 67½ volt, wet sponge spark detector set at 80.000 ohms resistance, such as a Tinker and Rasor model M-1.
- Cleanup:** Purge and clean spray equipment within thirty (30) minutes of the final spray. Flush equipment with CeRam-Kote Thinner 4 or CeRam-Kote Thinner 5 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.
- Warranty:** This material is for industrial use only. The information, data and suggestions contained herein are believed to be reliable, based upon our knowledge and experience; however it is expressly declared that Seller does not guarantee the result to be in Buyer's process. SELLER HEREBY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY FOR FITNESS FOR A PARTICULAR PURPOSE AND/OR ANY OTHER WARRANTY; EXPRESS OR IMPLIED as to any and all products and or suggestions described herein, whether such products are used alone or in combination with other materials. Buyer must make ist own determination of the suitability of any product or its use, and the completeness of any information contained herein. Licensed applicators are independent contractors and are not agents or employees of CERAM-KOTE COATINGS, INCORPORATED.