



## **PRODUCT DATA SHEET: CERAM-FLOOR TC2**

**Description:** CeRam-Floor TC2 is a thick-film air-cured ceramic epoxy coating system recommended for use on floors. Ideal for use as a chemical resistant, non water-spotting, high gloss topcoat. CeRam-Floor TC2 is available in a variety of colors. Fast, one coat application.

**Advantages:**

- Self leveling
- Rapid ambient and low temperature cure
- High gloss
- Blush-free
- Low viscosity
- 100% solids
- Excellent Chemical resistant

**Suggested Uses:** Primary use as a topcoat for floors or secondary containment

## **TECHNICAL DATA**

|                                   |   |
|-----------------------------------|---|
| <b>Volume Solids (catalyzed):</b> | 100%  |
| <b>VOC:</b>                       | Zero  |
| <b>Number of Coats:</b>           | One   |
| <b>Dry Film Thickness:</b>        | 20 mils (500 microns)   |
| <b>Compressive Strength:</b>      | 6,900 psi (ASTM D695-85)  |
| <b>Compressive Modulus:</b>       | 231 thousand psi (ASTM D695-85)   |
| <b>Tensile Strength:</b>          | 4,900 psi (ASTM 638-86)   |
| <b>Tensile Modulus:</b>           | 218 thousand psi (ASTM 638-86)  |
| <b>Tensile Elongation:</b>        | 12 @ percent break (ASTM 638-86)  |
| <b>Flexural Strength:</b>         | 9,700 psi (ASTM D790-86)  |
| <b>Flexural Modulus:</b>          | 303 thousand psi (ASTM D790-86)   |
| <b>Hardness:</b>                  | 80 (Shore D)  |
| <b>60° Specular Gloss:</b>        | 100   |
| <b>Abrasion Resistance:</b>       | 0.052 grams (ASTM D4060, 1,000 gram load, 1,000 cycles)   |
| <b>Mar resistance:</b>            | 1.05 kg (ASTM 5178-91)  |
| <b>Cure Time:</b>                 | Air dries to a touch-dry finish within eight (8) hours at 72°F (22.2°C) and dries to a 70% cure in twenty-four (24) hours. Cure times lengthen at lower temperatures and shorten at higher temperatures. Coating should be fully cured before placing into service. |
| <b>Surface Preparation:</b>       | CeRam-Floor TC2 should be applied over CeRam-Floor Primer.  |
| <b>Mixing Ratio:</b>              | Weight: Two (2) parts of Part A to one (1) part of Part B.<br>Volume: Two (2) parts of Part A to one (1) part of Part B.  |

- Mixing:** CeRam-Floor TC2 contains ceramic particles which must be placed into full suspension with the epoxy resin prior to application. CeRam-Floor TC2 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 with a paddle mixer until all ceramic particles 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 particles into suspension. **Regardless of time needed, shake all ceramic material into suspension prior to proceeding.** Failure to properly mix will keep CeRam-Floor TC2 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 *stir* with a paint stick or paddle mixer until both parts are thoroughly mixed. No induction time is needed before application.
- Pot Life & Shelf Life:** Pot life for CeRam-Floor TC2 at 72°F (22.2°C) is one (1) hour. 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. CeRam-Floor TC2 has an indefinite shelf life. Preferred storage/usage is a dry enclosed area under 85°F (29°C) /used within two (2) years. However, if stored more than two years above 85°F (29°C), call CERAM-KOTE COATINGS' Technical Support prior to use.
- Thinning:** CeRam-Floor TC2 is 100% solids and does not require thinning
- Application:** Pour entire contents of catalyzed material onto floor in a ribbon like fashion. Use a 1/8" notched squeegee to distribute the CeRam-Floor TC2 evenly. This will apply the necessary amount of CeRam-Floor TC2. Back roll with a semi-smooth or smooth roller. The product will self level to a very smooth, high gloss finish
- If anti-skid properties are needed: Broadcast media (glass beads, aluminum oxide, garnet, or quartz) into wet coating. It is recommended that the media have a size of 30-mesh or higher, depending on how aggressive the anti-skid finish is needed. Aggregate sizes of 30-mesh will leave a slight anti-skid surface, while aggregate sizes of 20-mesh or higher will leave very aggressive anti-skid finish.
- If aggregate is broadcast into the CeRam-Floor TC2, it is recommended to apply a CeRam-Kote topcoat in order to seal the aggregate.
- Climate:** Use CeRam-Floor TC2 only if the substrate temperature and ambient air temperature is above 40°F (4.4°C). Excessive humidity does not effect the performance of this product.
- Repairs:** If application of the coating is less than seventy-two (72) hours old and has not been exposed to contamination, repair by high-pressure water wash, preferably with alkaline detergent, and then re-apply CeRam-Floor TC2. If contaminated or more than 72 hours old, first sand with appropriate grit sandpaper, then repeat repair process.
- Cleanup:** Clean application equipment within thirty (30) minutes of the final application. Use CeRam-Kote Thinner 1 or CeRam-Kote Thinner 3. Disassemble and clean equipment to manufacturer's recommendations. Material left on 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.

3-23-07