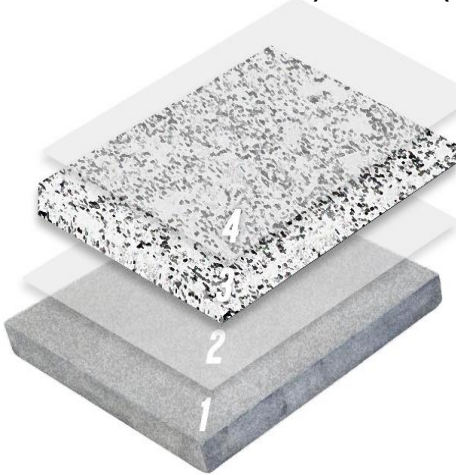


TECHNICAL SYSTEM SHEET CP TSS CEF 51 375

TerraCrown® Terrazzo Pigmented Trowel 250 Mils (6.5 mm) Flooring System, 1/4 Inch.

DESCRIPTION

CP TSS CEF 51 250 TerraCrown® Terrazzo is a pigmented two-component epoxy binder that is used to create the most decorative polymer floors in the construction industry. It is installed at a normal thickness of 1/4 inch (6.5 mm). The thickness of the installation affects the aggregate sizes. The most common chips are marble, which naturally occurs in different colors and different MOH's hardness. Recycled glass adds both color, mirrored glass create a three-dimensional depth, while Mother of Pearl, other aggregates and pigment colors are incorporated to create unique "one of a kind" looks. It is VOC Compliant in all states and provinces in North America. Meets: 1. NTMA (National Terrazzo and Mosaic Association) 2. TTMAC (Terrazzo, Tile and Marble Association of Canada).



CP TSS CUF 51 250 TerraCrown® Thin-Set Epoxy Terrazzo Pigmented 250 Mils (6.5 mm) Flooring System 1/4 Inch.

1. Concrete Substrate Profile – ICRI Concrete Surface Profile CSP 2 to CSP 4
2. Primer – 8371 TerraCrown® Clear 200 sq. ft. per gal (18.6 sq. ft. per lt.)
3. Binder – Per 1,000 sq. ft. (92.2 sq. m.) = 8370 TerraCrown® Pigmented 77 gal (291.5 lt.), Marble Fines 385 lbs. (174.8 kg.), #0 Marble Chips 1,538 lbs. (697.6 kg.), #1 Marble Chips 1,100 lbs. (499 kg.), #2 Marble Chips 1,000 lbs. (453.6 kg.) and a grout – 8370 TerraCrown® Pigmented with or without Marble fines. 200 to 300 sq. ft. per gal (18.6 sq. m. to 27.9 sq. m.)
4. Seal Coat - 8374 TerraCrown® Clear Grout and Sealer 200 sq. ft. per gal (18.6 sq. ft. per lt.) or equal.

OPTIONAL COMPONENTS

- Finish Coat - Sealers or Waxes Usually Required
- Optional Moisture Mitigation Primer - 8303 CrownShield® Clear 100 sq. ft. per gal (9.3 sq. m. per 3.79 lt.) 16 mils (0.41 mm)
- Optional Waterproofing & Crack Suppression Membrane - 8502 CrownFlex™ Clear 40 sq. ft. per gal (3.72 sq. m. per 3.79 lt.) 40 mils (1.0 mm)
- Optional Cove Binder - 8503 CrownFlex™ Thixotropic Epoxy Opaque and marble fines and marble chips.

Note: See individual Technical Data Sheets for information about each product.

TYPICAL USES

- Airport, Bus and Train Terminals and Areas Floors
- Arena and Stadium Floors
- Commercial Lobbies and Office Floors
- Churches, Mosques and Synagogue Floors
- High End Designer Floors
- Hospital and Health Care Facility Floors
- Pharmaceutical and Research Facility Floors
- Retail Spaces and Mall Common Areas Floors

- Schools and Universities Floors

BENEFITS

- Complies with USDA, FDA, Food Safety Modernization Act. See Crown Polymers Technical Bulletin: 3 Food and Beverage Compliance.
- Slip Resistance (ADA) See Crown Polymers Technical Bulletin: 4 Coefficient of Friction.
- LEED® and Green Seal® requirements. See Crown Polymers Technical Bulletin: 5 LEED and Green Seal Information.
- 100% Solids, Zero VOC and EPA Compliant, and low odor during installation. Cures to an inert finish. See Crown Polymers Technical Bulletin: 2 VOC Compliance.
- All components are VOC Compliant in all states and provinces in North America
- Strong and Tough Floor.
- Excellent Chemical and Abrasion Resistance
- Designed for new floors and for resurfacing old floors

LIMITATIONS

- These systems are best suited for applications in temperatures between 60°F to 90°F (16°C to 32°C).
- Higher temperatures will result in shortened working time and faster drying time.



- Do not use as a primer when concrete slab exceeds 3 lbs. or 80% RH. Under Concrete Slabs, Class A 15 mils (0.38mm).

COLORS

- Pigments–Federal Standard 595C Colors* and Custom Colors.

CONCRETE

Concrete must be structurally sound and free of curing agents, coatings, sealers, densifiers and other bond breakers.

New Concrete:

- Place concrete per ACI 302.2R Guide for Concrete Slabs that Receive Moisture-Sensitive Floor Materials.
- Water Cement Ratio 0.4 to 0.5 an approximately a 4,000 psi (28 MPa) strength level.
- Requiring a positive side moisture barrier in direct contact with the concrete meeting ASTM E1745 Standard Specification for Plastic Water Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs.
- The moisture barrier needs to be placed per ASTM E1643 Standard Practice for Selection, Design, Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill

Existing Concrete:

If field tests or laboratory analysis reveals inferior concrete flooring slabs containing contaminants from previously applied unreacted silicate materials that will interfere with the bonding.

- Contaminants include, but are not limited to: organic hydrocarbon materials, calcium chlorides and aluminum stearates.
- Concrete flooring slabs can lose their structural strength over time, caused by conditions beyond the control of the flooring manufacturer or the installation contractor.
- If the concrete substrate deteriorates sufficiently, it will no longer support the bond of the remediation floor system.

Such conditions are detailed in ACI 201.2R “Guide to Durable Concrete” published by the American Concrete Institute. See Crown Polymers Technical Bulletin: 1 Concrete Surface Preparation.

Mechanical Properties at 77°F (25°C) 7 Day Cure (8370 TerraCrown®) For Complete Details See 8370 TerraCrown® Technical Data Sheet

Surface Preparation ICRI Guideline No. 310.2R Concrete Surface Profile (CSP 2 and above) Depending on System to be Installed and Condition of Concrete.	
Adhesion, ASTM D7234, Concrete Failure	>400 psi (2.8 MPa)
Compressive Strength, ASTM D695 (Resin and Hardener)	11,700 psi (80.7 MPa)
Compressive Strength, ASTM D579 (Resin, Hardener and Aggregates)	11,500 psi (79.3 MPa)
Tensile Strength, ASTM D638	5,000 psi (34.5 MPa)
Tensile Elongation, ASTM D638	< 2.5%
Tensile Strength, ASTM C307	2,600 psi (17.9 MPa)
Surface Hardness, ASTM D2240 Shore D	80
Abrasion Resistance, ASTM D4060, 1000 cycles, Wheel No. CS17, 1000 gr. Load	<99 mg.
Linear Shrinkage, ASTM C531, Minus -12°F to Plus 140°F	1.6 X 10 ⁵ - 2.4 X 10 ⁵ in./in. °F
Flammability, Bond to Concrete, 25 mm Reference Mark	Less Than
Microbial (fungi) Resistance, ASTM G21 (Without the Anti-Microbial Agent)	Pass <1
Wet Dynamic Coefficient of Friction, ASNI 326.3, Depends on texture of system selected, ranging from smooth to aggressive. Measured with BOT 3000E equipment. This test must be run in the field after placement of the Finish Coat by a BOT 3000E Third Party Testing Firm to Validate.	>0.45 (inclines) >0.42 (level)
Moisture Vapor Emission Rate, ASTM F1869*	3 lbs.
Moisture Relative Humidity, ASTM F2170*	80% RH
*If moisture or relative humidity exceeds the limits consult the Crown Polymers representative and refer to Crown Polymers Technical Bulletin: 6 Moisture Mitigation Negative Side Moisture Barrier.	
Note: Although testing is critical, it is not guaranteed against future Problems. This is especially true if there is not a positive side vapor barrier installed per ACI 302.2R and ASTM F1754. Concrete must be sound and durable per ACI 201.2R and be free of bond breaking properties and/or concrete contamination from oil, chemical spills,	

CHEMICAL RESISTANCE DATA

See Crown Polymers Technical Bulletin: 9 Chemical Resistance Guidelines and Chart.

CHECK CONCRETE MOISTURE

Concrete must be dry before application of this floor coating material. Concrete moisture tests are required, either ASTM F1869 (calcium chloride) or ASTM F2170 (in situ RH probe). Refer to appropriate Technical Data Sheet limits and Crown Polymers Technical Bulletin: 6 Moisture Mitigation Negative Side Moisture Barrier.

CHECK TEMPERATURE and HUMIDITY

Floor and material temperature must be at or above the published Technical Data Sheet. Relative Humidity must be 5°F (3°C) below the dew point. Do not apply if humidity is at or above 95%. See Crown Polymers Technical Bulletin: 7 Temperature and Relative Humidity Limits.

SURFACE PREPARATION

Surface preparation in accordance with: ICRI Guideline No. 310.2R Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair. The pH of the concrete substrate should be at 9 or above. All bond-breaking material must be removed. See Crown Polymers Technical Bulletin: 1 Concrete Surface Preparation.

OPTIONAL ANTIMICROBIAL

The antimicrobial additive is a non-heavy metal biocide that can be added during the manufacturing process. The antimicrobial agent can be added to the top coat only for an economical application or it can be added to each step of the application, primer, body coat and top coat, which is recommended for abusive environments. See Crown Polymers Technical Bulletin: 11 Understanding the Optional Antimicrobial Additive.

MIXING

For ease of mixing and placement, the temperature of the “A” and “B” components should be between 70°F to 80°F (20°C to 26°C). Pre-mix the “A” and “B” component to ensure all raw material and pigments are dispersed uniformly. See Crown Polymers Technical Bulletin: 10 Mixing Guidelines.

APPLICATION

Place all steps per Crown Polymer Installation Guidelines.

SKID-RESISTANCE

Skid-Resistance – Field (in situ) Wet Dynamic Coefficient of Friction (DCOF), ANSI A326.3. See Crown Polymers Technical Bulletin: 4 Coefficient of Friction.

CLEAN-UP

Clean-up mixing station, tools and equipment as cleaning up. Observe all legal, and health and safety precautions when handling or storing solvents and materials, particularly in confined spaces. Make sure the working areas are well ventilated at all times during placement and curing time.

DISPOSAL

Dispose of empty packaging and other waste in accordance with federal, state, provinces and local regulations.

MAINTENANCE

Inspect the installed floor by spot cleaning and spot repairing the damaged or cracked areas. To prolong life of the flooring system, a daily maintenance program is highly recommended to ensure the floor is safe for its intended purposes. See Crown Polymers Technical Bulletin: 8 Care and Maintenance.

TECHNICAL SUPPORT

For questions, contact a Crown Polymers Representative.

DISCLAIMER

All technical bulletins, installation guidelines, guidelines, recommendations, statements, specifications, and technical data contained herein are based on information and tests. The accuracy and completeness of such tests are not guaranteed and are not to be construed as a warranty, expressed or implied. It is the responsibility of the user to document information and tests to determine the intent of the product for ones' own use. The application, job conditions and user assume all risks and liability resulting from use of the product. We do not suggest or guarantee any hazards listed herein are the only ones, which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use the product. Recommendations or statements, whether in written or verbal, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Crown Polymers makes no claim that these tests or any other tests accurately represent all environments. Not responsible for any typographical errors.

LIMITED WARRANTY

Crown Polymers warrants its products to be free of manufacturing defects and meets all Crown Polymers current published physical properties. Crown Polymers' sole responsibility shall be to replace the portion of any product proved to be defective. There are no other warranties by Crown Polymers of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Crown Polymers shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Crown Polymers shall not be responsible for the use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee pertaining to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator will be issued. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Crown Polymers reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. KEEP CONTAINERS TIGHTLY CLOSED.