



OPTIONAL COMPONENTS

- **Moisture Mitigation Primer :**
8303 CrownShield™ Clear 100 ft²/gal @ 16 mils
- **Waterproofing & Crack Suppression Membrane :**
8502 CrownFlex Clear 40 ft²/gal @ 40 mils
- **Cove Binder :**
8503 CrownFlex Thixotropic Epoxy 35 lf/gal @ 6"

*For complete details refer to each optional components Technical Data Sheet (TDS).

MECHANICAL PROPERTIES

For complete details refer to each components Technical Data Sheet (TDS)

CHEMICAL RESISTANCE

Refer to CrownTech Chemical Resistance Guideline Technical Bulletin No. 9

SYSTEM DESCRIPTION

The CrownMetallic floor system utilizes a metallic pigment to create a visually appealing three-dimensional decorative effect, applied at a nominal thickness of 60 mils. The completed appearance of the Metallic flooring system can display a range of color variations, from soft, gradual changes to more pronounced effects through the addition of various colors. Each project is inherently unique. It is also compliant with VOC regulations throughout all states and provinces in North America.

TYPICAL USES

- Showroom Floors
- Hospitality Lobbies
- Retail Floors
- Medical Clinics
- Labs
- Interior Floors
- Office Spaces
- Basement Floors
- School & University Classrooms
- Restaurant Dining

BENEFITS

- Complies with USDA, FDA, FSMA. See Crown Polymers Technical Bulletin: 3 Food and Beverage Compliance.
- Slip Resistance (ADA) See Crown Polymers Technical Bulletin: 4 Coefficient of Friction.
- LEED requirements. See Crown Polymers Technical Bulletin: 5 LEED information
- Cures to an inert finish. See Crown Polymers Technical Bulletin: 2 VOC Compliance

COLORS



PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment
Jiffy Mixing Paddle
Drill
18" x 3/8" Nap Shedless Roller Cover
8-12 or 15-20 Mil Notched Squeegee
4" Chip Brush
Spike Shoes

SURFACE DIAGNOSTICS

Concrete must be structurally sound and free of all contaminants and bond breakers. Test concrete compressive strength using a Schmidt or Rebound Hammer to ensure substrate has compressive strength of 3500 psi or higher. Perform a PH test using concrete PH test strips or meter to ensure substrate PH is between 9-12. Perform Moisture Test using either Calcium Chloride per ASTM F1869 or In-Situ Relative Humidity Probe per ASTM F2170 to ensure substrate has Moisture Vapor Emission Rate of 3 lbs or less and Relative Humidity of 80% or less. See CrownTech Bulletin 6: Moisture Mitigation Negative Side Moisture Barrier

If Moisture Vapor Emission Rate is above 3 lbs. but below 25 lbs. and relative humidity is above 80% but below 99% then apply 8303 Moisture Barrier Primer first at 16 mils with a coverage rate of 100 Ft²/ Gal.

SURFACE PREPARATION

Use Mohs scratch test to determine concrete hardness for proper diamond bond selection. Concrete should be mechanically profiled and prepared to produce a Concrete Surface Profile (CSP) level between #2 & #4 per ICRI Guideline no. 310.2R. See CrownTech Bulletin 1: Concrete Surface Preparation. All perimeter areas of coating termination shall be masked for protection. Saw cut and key-in all termination points.

SURFACE REPAIR

All depressions, divots and cracks should be profiled and free of dust and contaminants. Repair surface imperfections to reduce the ability to see the defect through the coating. Honor all dynamic (moving) joints, static joints may be filled, use dynamic joints as initiation and termination points during application process where needed.

TEMPERATURE EVALUATION

Ambient and substrate temps should be above 50°F and a minimum of 5°F above Dew Point. Product temps should be between 70-80°F. Relative Humidity should not exceed 80%. See CrownTech Bulletin 7: Temperature & Relative Humidity

REFER TO SAFETY DATA SHEETS (SDS) FOR SAFETY PRECAUTIONS.

SAFETY PRECAUTIONS MUST BE FOLLOWED DURING STORAGE, HANDLING AND USE.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

SHALL BE WORN AT ALL TIMES INCLUDING BUT NOT LIMITED TO LONG SLEEVE SHIRTS OR DISPOSABLE ARM SLEEVES, SAFETY GLASSES, DISPOSABLE NITRILE GLOVES, AND PROPERLY FITTED NIOSH RESPIRATORS

ALL SOURCES OF IGNITION SHOULD BE TURNED OFF AND ENVIRONMENT SHOULD HAVE PROPER AND ADEQUATE VENTILATION DURING APPLICATION AND CURING PROCESS

MIXING AREA SHOULD BE PLACED ON OR IN CLOSE PROXIMITY TO PROJECT. AREA SHOULD BE SECURELY COVERED WITH PLASTIC, CARDBOARD OR TARP. STAGE MATERIALS, TOOLS AND CLEANING SUPPLIES IN MIXING AREA PRIOR TO APPLICATION PROCESS.

8202 MIXING PROCEDURE

- 1 Pre-Mix A-Component in its respective container using Jiffy mixer and drill at slow speeds for 30 seconds to ensure even pigmentation.
- 2 Pre-Mix B-Component in its respective container using clean Jiffy mixer and drill at slow speeds for 30 seconds or until thoroughly homogeneous.
- 3 Transfer B-component and A-component at a mix rate of 4A:1B into a clean 5-gal bucket, add 1 part clean water and mix for 2-3 minutes being sure to scrape sides of the bucket with a stir stick ensuring both components are thoroughly blended

8202 COVERAGE RATE

200 Ft² / Gal @ 8 Mils wet film

8202 WORKING TIME

45 Minutes @ 75°F

8202 APPLICATION PROCEDURE

- 1 Cut-in stem walls using a 4" chip brush. Do not work edges more than 10 minutes ahead of main body of the floor.
- 2 Pour a band of mixed material across the surface roughly 4-6" wide. Use 8-12 mil notched squeegee to gauge material across surface
- 3 Back roll the surface with 18" x 3/8" nap roller by walking into the wet material wearing spike shoes and roll the surface wall to wall with overlap perpendicular to your first pass
- ✓ Allow primer to dry 4-6 hours. Proceed with next steps within 24 hrs or abrading surface will be required

8318 MIXING PROCEDURE

- 1 Pre-Mix Metallic pigment to A-component and mix for 5 mins and let stand for 24 hours prior to use.

If using multiple batches, it is best to box all A-Components together then separate back into individual containers to ensure even pigmentation.

- 2 Pre-Mix A-Component morning of use for 2 minutes until thoroughly homogeneous and strain through paint strainer
- 3 Transfer B-component and A-component at a mix rate of 2A:1B by volume into a clean 5-gal bucket and mix for 2-3 minutes being sure to scrape sides of the bucket with a stir stick ensuring both components are thoroughly blended

8318 COVERAGE RATE

40 Ft² / Gal @ 40 Mils wet film

8318 WORKING TIME

20-25 Minutes @ 75°F

Warmer ambient, product and surface temperatures and high humidity will shorten potlife and working time.

8318 APPLICATION PROCEDURE

- 1 Pour a band of mixed material across the surface roughly 4-6" wide. Use 40-45 mil notched squeegee to gauge material across surface
- 2 Use 3/8" nap roller in organic motions to create flow
 - Do not over work or overroll material
- ✓ Allow coating to dry 24 hours. Sand surface with 80-100 grit screens and clean all dust from surface before proceeding with topcoat application.

8100 MIXING PROCEDURE

- 1 Pre-Mix A-Component in its respective container using Jiffy mixer and drill at low RPMs for 30 seconds to ensure components are fully suspended.
- 2 Pre-Mix B-Component in its respective container using clean Jiffy mixer and drill at slow speeds for 30 seconds or until thoroughly homogeneous.
- 3 Transfer A-component and B-component at a mix rate of 3A:1B by volume into a clean 5-gal bucket (if adding aluminum oxide add #220 at a rate of 1/2 lb./gal or #320 at a rate of up to 3 lbs./ gal) and mix for 2-3 minutes at low RPMs being sure to scrape sides of the bucket with a stir stick ensuring both components are thoroughly blended

8100 COVERAGE RATE

500 Ft² / Gal @ 3.2 mils wet film

8100 WORKING TIME

15-25 Minutes @ 75°F

WARMER AMBIENT, PRODUCT AND SURFACE TEMPERATURES AS WELL AS HIGHER RELATIVE HUMIDITY WILL SHORTEN POTLIFE AND WORKING TIME.

8100 APPLICATION PROCEDURE

- 1 Cut-in edges using a 4" chip brush. Do not allow wet edges to stand more than 10 minutes ahead of application of main body of floor.
- 2 Using paint tray dip and roll material across surface using 18" x 1/4" Mohair roller.
 - Maintain wet edge
 - Always pour next mixed batch onto wet edge
 - Do not apply heavier than recommended coverage rates
- 3 Back roll the surface with 18" x 1/4" nap roller by walking into the wet material wearing spike shoes and roll the surface wall to wall with overlap perpendicular to your first pass
 - Do not overwork material
- ✓ Allow coating to dry 4-10 Hrs @ 75°F
 - Do not force dry.
 - Light Traffic: 24 Hours
 - Heavy Traffic: 48 Hours
 - Equipment Traffic: 72 Hours

SLIP 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 required. Use acetone, a VOC exempt solvent, for 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. Additional Support Documents are available from Crown Polymers, including brochures, application guidelines, videos and more. Visit Crownpolymers.com or contact Crown for additional resources

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