365 CrownShield® Metallic Epoxy

Technical Data Sheet (TDS)

PHYSICAL PROPERTIES

SOLIDS CONTENT	.....	100%
VOLUMETRIC MIX RATIO	.....	2A:1B
COVERAGE RATE	.....	**Build Coat:** 30-50 ft²/gal 32-40 Mils
APPLICATION TEMP	.....	50°- 90°F
POTLIFE 1 Gal mass @ 75°F	.....	20 Minutes
DRY TIME @ 75°F	.....	8-12 Hours
RECOAT WINDOW	.....	12-24 Hours
FULL CURE	.....	7 Days
PACKAGING	.....	3 Gal Kit

MECHANICAL PROPERTIES

TENSILE STRENGTH ASTM D638	.....	3,400 p.s.i
ELONGATION ASTM D638	.....	60%
ADHESION TO CONCRETE ASTM D7234	.....	>400 p.s.i
TEAR STRENGTH ASTM D638	.....	450 pli
SHORE D HARDNESS ASTM D2240	.....	75

CHEMICAL RESISTANCE

Refer to CrownTech Chemical Resistance Guideline Technical Bulletin No. 9

PRODUCT DESCRIPTION

365 CrownShield® Clear Metallic Epoxy is a high-performance, flowable epoxy designed specifically for metallic flooring systems where clarity, movement, and durability are critical. Formulated with exceptional tear strength, high tensile strength, and good elongation, this epoxy accommodates substrate movement while maintaining a seamless, crack-resistant finish. Its crystal-clear appearance allows metallic pigments to fully develop depth, reflectivity, and visual movement without distortion or yellowing. Excellent flow and leveling characteristics create smooth, uniform surfaces, making it ideal for both artistic metallic effects and high-end decorative installations.

TYPICAL USES

- Showroom Floors
- Retail & Boutiques
- Salons & Spas
- Restaurants & Bars
- Office & Lobbies
- Event Spaces & Galleries
- Museums & Exhibits
- Garages & Interior Spaces

BENEFITS

- Higher load bearing capacity through increased tensile strength
- Greater elongation for improved impact resistance
- Enhanced tear and shear strength
- Better dimensional stability through increased hardness

COLORS

Clear Gloss

LIMITATIONS

- Higher temperatures will result in shortened working times and faster drying time.
- Use 8303 CrownShield® Moisture Barrier when MVT exceeds 3 lbs. or 80% RH
- May amber with UV Exposure
- Will not bridge cracking
- Do not thin

SHELF LIFE

1 Year from Date of Manufacture provided unopened

STORAGE

Store in a dry environment at room temperature and out of direct sunlight.

APPLICATION EQUIPMENT

Personal Protective Equipment
Jiffy Mixing Paddle
Drill
18”x 3/8” Nap Shedless Roller Cover
40-50 Mil Notched Squeegee or Padco Foam 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.

DO NOT MIX MORE MATERIAL THAN CAN BE APPLIED IN 30 MINUTES

MIXING PROCEDURE

1. Add 12 oz Metallic Pigment to A-Component and using clean Jiffy mixer and drill at slow speeds mix for 5-10 minutes or until thoroughly homogeneous 24 hours prior to use.
2. Mix the A-component for 2-5 minutes and strain through paint strainer.
3. Transfer A-component and B-component at a mix rate of 2A:1B by volume into a clean 5-gal bucket 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

COVERAGE RATE

Metallic: 30-50 Ft² / Gal @ 32-53 Mils

COVERAGE RATE MAY VARY DEPENDING ON SUBSTRATE CONDITION

WORKING TIME

45 Minutes @ 75°F

WARMER AMBIENT, PRODUCT AND SURFACE TEMPERATURES WILL SHORTEN POTLIFE AND WORKING TIME.

APPLICATION PROCEDURE

1. Pour a band of mixed material across the surface roughly 6-8” wide. Use 40-50 mil notched squeegee to gauge material across surface or padco foam squeegee.
   - Maintain wet edge
   - Always pour next mixed batch onto wet edge
   - Do not apply heavier than recommended

EPOXY SETS FASTER IN MASS, MIXED MATERIAL SHOULD NOT REMAIN IN BUCKET

2. Roll the surface with 9” x 3/8” nap roller in organic fashion by walking into the wet material wearing spike shoes
   - Do not overwork material
   - Additional colors may be added and blended into wet material for desired artistic effects

✓ Allow coating to dry 8-12 Hrs @ 75°F
Do not force dry.
Surface should be abraded after 24 hours with 100 grit sanding screen to break surface tension prior to applying final topcoat

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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