

## PHYSICAL PROPERTIES

<b>SOLIDS CONTENT</b>	.....	100%
<b>MIX RATIO</b>	.....	2A:1B
<b>COVERAGE RATE</b>	.....	40 ft <sup>2</sup> /gal 40 Mils
<b>APPLICATION TEMP</b>	.....	50°- 90°F
<b>POTLIFE</b> 1 Gal mass @ 75°F	.....	20 Mins
<b>DRY TIME</b> @ 75°F	.....	5-12 Hours
<b>RECOAT WINDOW</b>	.....	12-24 Hours
<b>FULL CURE</b>	.....	7 Days
<b>PACKAGING</b>	.....	3 Gal Kit 15 Gal Kit

## MECHANICAL PROPERTIES

<b>COMPRESSIVE STRENGTH</b> ASTM D695	.....	14,000 p.s.i
<b>TENSILE STRENGTH</b> ASTM D638	.....	6,500 p.s.i
<b>ELONGATION</b> ASTM D638	.....	6.7%
<b>ADHESION TO CONCRETE</b> ASTM D7234	.....	>400 p.s.i
<b>SHORE D HARDNESS</b> ASTM D2240	.....	67-72

## CHEMICAL RESISTANCE

Refer to CrownTech Chemical Resistance Guideline Technical Bulletin No. 9

## PRODUCT DESCRIPTION

Epoxy Clear LV Coatings for Metallic Flooring

8328 CrownShield™ Metallic LV Epoxy Binder is a two-component, low viscosity, 100% solids, self-priming epoxy binder designed to be used with CrownMetallic Pigments SP710 CrownMetallic employs a decorative mineral mica (igneous, metamorphic, and sedimentary) ranging in a wide variety of naturally occurring colored crystals that are mechanically cleaved into extremely thin elastic platelets. It can be applied directly over Crown Polymers 8303 CrownShield MVB (moisture mitigation primer). It is VOC Compliant in all states and provinces in North America.

## TYPICAL USES

- Animal Care and Housing
- Commercial Bakeries and Kitchens
- Hospital and Health Care Facility Floors
- Manufacturing and Warehouse Floors
- Pharmaceutical Floors
- Automotive Show Room and Repair Areas
- Food, Beverage and Spirits Processing
- Laboratories and Research Floors
- Mechanical Equipment Room Floors

## BENEFITS

- Complies with USDA, FDA, FSMA. See Crown Polymers Technical Bulletin: 3 Food and Beverage Compliance.
- LEED requirements. See Crown Polymers Technical Bulletin: 5 LEED information
- Cures to an inert finish. See Crown Polymers Technical Bulletin: 2 VOC Compliance

## COLORS



Clear Gloss

## LIMITATIONS

- Higher temperatures will result in shortened working times and faster drying time.
- May amber with UV Exposure
- Use 8303 CrownShield Moisture Barrier when MVT exceeds 3 lbs. or 80% RH

## 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  
8-12 or 50-60 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 psi 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 psi but below 25 psi 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 Ft<sup>2</sup> / 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

**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 20 MINUTES**

## MIXING PROCEDURE

- 1 Add 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: 40 Ft<sup>2</sup> / Gal @ 40 Mils**

**COVERAGE RATE MAY VARY DEPENDING ON SUBSTRATE CONDITION**

## WORKING TIME

**25 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 8-12 mil notched squeegee to gauge material across surface
  - Maintain wet edge
  - Always pour next mixed batch onto wet edge
  - Do not apply heavier than recommended coverage rates

**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

- ✓ Allow coating to dry 5-12 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](http://Crownpolymers.com) or contact Crown for additional resources

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**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**