

# 8202 CrownPrime™ WB Epoxy Primer and Economical Coating

## TECHNICAL DATA SHEET

Product Number: 8202

Water Base, an Economical Clear Epoxy Primer and Pigmented Thin Mil Coating

### DESCRIPTION

**8202 CrownPrime** 8202 CrownPrime two of the three components are supplied Crown Polymers, the third component, potable water, is a field added, but only after the A and B components are properly mixed. It cures rapidly and can be applied to dry or damp concrete. It is available in clear or it can be factory pigmented.

- a. It is designed as a primer for epoxies and pigmented polyurethanes.
- b. It can be top-coated creating an economical thin mil epoxy coating.

It is VOC Compliant in all states and provinces in North America.

### TYPICAL USES

- General-purpose primer with excellent wetting capabilities
- Rapid curing
- Can be used over properly prepared concrete that dry or damp SSD (saturated surface dry).
- It is recommended as a pigmented primer under CrownMetallic.
- Can be used as an economical “light duty” thin mil coating system

### BENEFITS

- Complies with USDA, FDA, Food Safety Modernization Act. **See Crown Polymers Technical Bulletin: 3 Food and Beverage Compliance.**
- LEED® and Green Seal® requirements. **See Crown Polymers Technical Bulletin: 5 LEED and Green Seal Information.**
- VOC and EPA Compliant in all states and provinces in North America. Cures to an inert finish. **See Crown Polymers Technical Bulletin: 2 VOC Compliance.**
- Strong Adhesion
- Designed for new floors and for resurfacing old floors

### LIMITATIONS

- This product is best suited for applications in temperatures between 60°F to 90°F (16°C to 32°C). Do not apply when Relative Humidity exceeds 85%. **See Crown Polymers Technical Bulletin: 7 Temperature and Relative Humidity Limits.**
- Higher temperatures will result in shortened working times and faster drying time.

### COLORS

- When used as a Primer “Clear Only”, do not pigment, unless used under CrownMetallic.
- When used as a Coating, the non-primer coat(s) can be pigmented Crown Polymers Standard Color

Guide. Not available in Fast Red, Rich Blue, Leaf Green, or Safety Yellow. White, Black, Light Gray, Medium Gray, and Tan only.

### COVERAGE RATE PER GALLON

- Primer: 160 to 200 sq. ft. (14.9 to 18.9 sq. m.) 8 to 10 mils (WFT)
- Pigmented Coating over Clear Primer: 160 sq. ft. (14.9 sq. m.) 10 mils (WFT)

### HANDLING and SAFETY

Warning! Eye and skin irritant. May cause dermatitis and sensitization. Always read and follow the product SDS. Avoid contact with eyes, skin, and clothing. Avoid breathing vapors, mist, and spray. Use good ventilation.

### 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, and an approximate 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 Under Concrete Slabs, Class A 15 mils (0.38mm)

#### 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 bond, use 8201 CrownPrime WBC. **See Crown Polymers Technical Bulletin: 20 Selecting a Primer.**

- Contaminants include, but are not limited to organic hydrocarbon materials, calcium chlorides, and aluminum stearates.
- Concrete flooring slab 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.**

Physical Properties at 77°F (25°C)	
VOC (Volatile Organic Compounds), (VOC Calculated Per ASTM D3960)	50 gr./lt.
Standard Viscosity Clear, Mixed Epoxy and Hardener	100 – 150 cps
Standard Viscosity Clear, Mixed Epoxy and Hardener, at 50°F (10°C)	40% - 42%
Percent Solids Clear by Volume, (Pigmented Slightly Higher)	44% - 46%
Mix Density Clear, Mixed Epoxy and Hardener	1 – 2 Hours
Pot Life, 1 gallon (3.79 liters) Mass, Pot Life is Reduced by Increases in Mass and Temperature	4:1:1
Mix Ratio, by Volume	2 Hours
Dry to Touch 40°F to 90°F (4°C to 32°F)	8 - 10 Hours
Recoat Time 40°F to 90°F (4°C to 32°F)	24 Hour Minimum
Light Traffic 40°F to 90°F (4°C to 32°F)	5 to 7 Days
<ul style="list-style-type: none"> <li>• Relative humidity in excess of 70% will retard cure times. Enhanced air movement will help flash off the moisture in the product.</li> <li>• The higher the temperature and the lower the humidity the shorter the cure time.</li> <li>• The lower the temperature and the higher the humidity the longer the cure time.</li> </ul>	
Shelf Life (shipped and stored) at 40°F to 100°F (4.4°C to 38°C)	1.5 Years
Packaging 1.25 to 5 gal. (4.7 and 18.9 liters)	

Mechanical Properties at 77°F (25°C)	
Surface Preparation ICRI 310.2R Concrete Surface Profile (CSP 2 and above) Depending on System to be Installed and Condition of Concrete.	
Resin, Hardener and Potable Water	Standard
Gloss (60 degrees), ASTM D523	85 - 90
Pencil Hardness, ASTM D3363	F-H
Adhesion, ASTM D7234, Concrete Failure	>400 psi
Flexibility (Mandrel Cylinder 1/4 Inch), ASTM D1743	Passes
Microbial (fungi) Resistance, ASTM G21 (Without the Anti-Microbial Agent)	Pass #1
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:** though testing is critical, it is not a guarantee against future problems. This is especially true if there is not a positive side vapor barrier or it is not functioning properly and/or concrete has contamination from oils, chemical spills, densifiers, excessive salts or other bond breakers.

## CHEMICAL RESISTANCE DATA

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

## CHECK CONCRETE MOISTURE

Refer to appropriate **Technical Data Sheet limits and Crown Polymers Technical Bulletin: 6 Moisture Mitigation Negative Side Moisture Barrier.**

## CHECK TEMPERATURE & HUMIDITY

Floor and material temperature must be at or above the published Technical Data Sheet. Dew Point must be 5°F (3°C) or more below the surface temperature. Do not apply if humidity is at or above 85%. **See Crown Polymers Technical Bulletin: 7 Temperature and Relative Humidity Limits.**

## SURFACE PREPARATION

Surface preparation per: 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: Concrete Surface Preparation.**

## APPLICATION EQUIPMENT

Depending on system applied: Disposable 3" brush for cutting in, variable low-speed drill (450 rpm) with Jiffy® type impeller mixing paddle, 3/8 inch nap non-shedding phenolic core roller, roller frame, and V-notched rubber squeegee.

## 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 topcoat only for an economical application or it can be added to each step of the application, primer, body coat, and topcoat, 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 (21°C to 27°C). Pre-mix the "A" and "B" components to ensure all raw material and pigments are dispersed uniformly. Box pigmented products if using different numbers for uniformity of color. **See Crown Polymers Technical Bulletin: 10 Mixing Guidelines.**

## APPLICATION

After mixing all contents as instructed, immediately pour all liquid material onto the properly prepared concrete substrate, or next epoxy lift in ribbons and squeegee the material out evenly. Back-roll and cross-rolling of material are critical. Check for desired wet film thickness

with a WFT Gauge. Place all steps per Crown Polymer Installation Instruction.

## SHIPPING and STORAGE

Ship and store material between 40°F to 90°F (4°C to 32°C). Store in a dry environment and out of direct sunlight.

## SHELF LIFE

Shelf life is 1 year from the date of manufacturer, provide the containers are unopened.

## 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 per federal, state, province, and local regulations.

## MAINTENANCE

Inspect the installed floor by spot cleaning and spot repairing the damaged or cracked areas. To prolong the 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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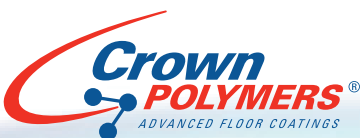
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**LIMITED WARRANTY**

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.

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Crown Polymers Corp. • Tel: 847.659.0300 • Fax: 847.659.0310  
info@crownpolymers.com • www.crownpolymers.com  
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