

SYSTEM DESCRIPTION

CrownWall FE is a multi-layer, high build wall surfacing system utilizing two coats of a flexible epoxy membrane as a base and a high solids urethane topcoat for chemical resistance, color and gloss retention. This unique system offers a competitive advantage over reinforced rigid epoxy systems while providing superior crack bridging and impact resistance. CrownWall FE is typically installed at a nominal thickness of 14-18 mils.

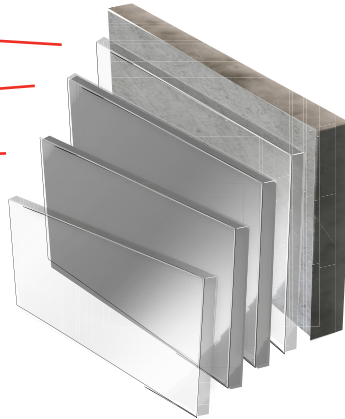
1. **PRIMER***

(* Required over drywall substrates or concrete surface is extremely porous)

2. **BASE COAT**

3. **BUILD COAT**

4. **TOP COAT**



SYSTEM COMPOSITION

1. 8202 CrownPrime WB Epoxy Primer (if necessary)
2. 8511 CrownShield® Flex Membrane
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4. 8100 HP Polyurethane

OPTIONAL TOPCOATS:

- 8115 CrownPro
- 8195 CrownPro

TYPICAL USES

- Pharmaceutical, biotech and cosmetic manufacturing facilities
- Food and beverage processing facilities
- Health care facilities
- Operating rooms, scrub rooms, intensive care and therapy rooms
- Clean rooms and sterile environments for laboratories, vivariums and research facilities
- Commercial kitchens, dishwasher and waste disposal areas
- Environments where high impact walls are required

BENEFITS

- Seamless surface
- May be applied to a variety of substrates
- Resists frequent heavy duty sanitization
- Flexible, crack bridging properties
- Suitable for elevated temperature wash downs
- Good abrasion resistance
- No static cling
- Excellent impact and chemical resistance

PHYSICAL PROPERTIES

COMPRESSIVE STRENGTH	ASTM D695	2,500 p.s.i
TENSILE STRENGTH	ASTM D638	1,760 p.s.i
TENSILE ELONGATION	ASTM D638	95%
KONIG HARDNESS	ASTM 4366	150
ABRASION RESISTANCE CS17 Wheel, 1000g Load, 1000 Cycles	ASTM D4060	30 mg loss
IMPACT RESISTANCE	ASTM D2794	160 in/lbs
ADHESION TO CONCRETE	ASTM D7234	>300 p.s.i Concrete Failure

*The above physical properties were measured in accordance with the referenced standards. Results may vary based upon statistical variations on mixing methods, equipment, application methods, environment, actual site conditions, and curing conditions. All sample preparation and testing are conducted in a laboratory environment and actual performance on job site may vary from these values based on actual site conditions.

SUBSTRATE

Surface must be clean, dry, and free of all oil, grease, and contaminants. Concrete surfaces should be cured a minimum of 28 days under good conditions prior to application of wall coating. Drywall shall be completely clean and free of any oils, soap residue, and gypsum dust. Substrate finish will affect final appearance of wall coating and coverage rate will vary depending upon porosity and texture of substrate.

SURFACE PREPARATION

Concrete: Use Mohs scratch test to determine concrete hardness for proper concrete preparation method. Concrete should be mechanically profiled and prepared to produce appropriate Concrete Surface Profile (CSP) per ICRI Guideline no. 310.2R. See CrownTech Bulletin 1: Concrete Surface Preparation and refer to individual product Technical Data Sheet (TDS) for desired CSP level. When applying over previously painted or coated concrete or block walls, lightly sand to remove any gloss.

Drywall: Drywall shall be completely clean and free of any oils, soap residue, and gypsum dust and prepared to a #4 to #5 finish. Primer is recommended to be used over drywall applications.

All perimeter areas of coating termination shall be masked for protection.

SURFACE REPAIR

When coating over concrete or block wall it is recommended to fill any pores in the substrate to reduce the ability to see the defect through the coating. Block wall mortar joints should be cured for a minimum of 7 days prior to coating under good conditions.

CLIMATE EVALUATION

Ambient and substrate temperatures should be above 50°F and a minimum of 5°F above Dew Point. Product temps should be between 70-80°F. Atmospheric Relative Humidity should not exceed 80% during application. See CrownTech Bulletin 7: Temperature & Relative Humidity and refer to individual products Technical Data Sheet (TDS) for appropriate range.

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.

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 and refer to Individual products Technical Data Sheet (TDS) for mixing procedures.

APPLICATION

Please refer to each individual product's Technical Data Sheet (TDS) for Application Instructions.

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.

CHEMICAL RESISTANCE

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

MAINTENANCE

Inspect the installed coating by spot cleaning and spot repairing the damaged or cracked areas. To prolong life of the coating system, a daily maintenance program is highly recommended to ensure the coating 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

DISCLAIMER

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