

PHYSICAL PROPERTIES

VOC	.....	<5 g/L
SOLIDS CONTENT	.....	100%
VOLUMETRIC MIX RATIO	.....	1A:1B
COVERAGE RATE	.....	Primer: 200 ft ² /gal 8 Mils Build Coat: 100 ft ² /gal 16 Mils Topcoat: 160 ft ² /gal 10 Mils
APPLICATION TEMP	.....	50° - 90°F
POTLIFE 1 Gal mass @ 75°F	.....	20 Min
DRY TIME @ 75°F	.....	4-6 Hours
RECOAT WINDOW	.....	8-24 Hours
FULL CURE	.....	7 Days
PACKAGING	.....	2 Gal Kit 10 Gal Kit

MECHANICAL PROPERTIES

COMPRESSIVE STRENGTH ASTM D695	.....	12,000 p.s.i
TENSILE STRENGTH ASTM D638	.....	4,500 p.s.i
ELONGATION ASTM D638	.....	2%
ADHESION TO CONCRETE ASTM D7234	.....	>400 p.s.i
WATER ABSORPTION ASTM D570	.....	0.15%
SHORE D HARDNESS ASTM D2240	.....	80-85
ABRASION RESISTANCE ASTM D4060	.....	0.026 gr

CHEMICAL RESISTANCE

Refer to CrownTech Chemical Resistance Guideline Technical Bulletin No. 9

PRODUCT DESCRIPTION

7500 CrownPro AcidShield is a multifunctional phenol novolac resin that is extremely chemical resistant. 7500 CrownPro AcidShield is a moderate viscosity thick film novolac lining designed to cure at ambient temperatures to provide superior corrosion protection for surfaces in severe chemical and physical environments. It can be applied directly over 8303 CrownShield™ MVB (moisture mitigation primer). It is VOC Compliant in all states and provinces in North America.

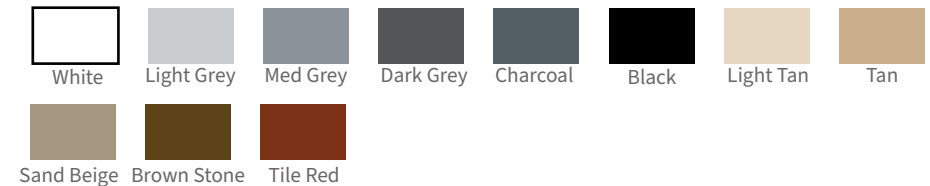
TYPICAL USES

- Crude Oil Storage Tanks
- Mining & Milling Industries
- Secondary Containment Areas
- Water & Waste Water Treatment Plants
- Food Processing Facilities
- Petrochemical Plants
- Semi-Conductor Manufacturing & Etching
- Power Generating Plants

BENEFITS

- Complies with USDA, FDA, Food Safety Modernization Act.
- VOC and EPA Compliant, and low odor during installation. Cures to an inert finish.
- Strong Chemical and Abrasion Resistance
- Slip Resistance (ADA)
- LEED® requirements.
- Strong and Tough Floor
- Designed for new floors and for resurfacing old floors

COLORS



LIMITATIONS

- Higher temperatures will result in shortened working times and faster drying time.
- Color may vary due to batch-to-batch variation, always “box” different batches to avoid it.
- 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.

DISCLAIMER

All technical bulletins, installation guidelines, guidelines, recommendations, statements, specifications, and technical data contained herein are based on information and tests. The accuracy and completeness of such tests are not guaranteed and are not to be construed as a warranty, expressed or implied. It is the responsibility of the user to document information and tests to determine the intent of the product for ones' own use. The application, job conditions and user assume all risks and liability resulting from use of the product, We do not suggest or guarantee any hazards listed herein are the only ones, which may exist, Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use the product. Recommendations or statements, whether in written or verbal, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Crown Polymers makes no claim that these tests or any other tests accurately represent all environments. Not responsible for typographical errors.

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 expressed or implied. In addition, no warranty or guarantee pertaining to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by applicator will be issued. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of substrate or structural defects are also excluded from limited warranty.

APPLICATION EQUIPMENT

Protective Clothing
Jiffy Mixing Paddle
Slow Speed Drill
18" x 3/8" Nap Roller Cover
8-12 Mil Notched Squeegee
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

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

SURFACE REPAIR

All depressions, divots and cracks should be profiled and free of dust and contaminants. Repair cracks to reduce the ability to see the defect through the coating.

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 85%. See CrownTech Bulletin 7: Temperature & Relative Humidity

REVIEW SAFETY DATA SHEETS FOR PRECAUTIONS

MIXING

- 1 Pre-Mix A-Component in its respective container using Jiffy mixer and drill at slow speeds for 1 minute until pigment is uniform.

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 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 1A: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

COVERAGE RATE

Primer: 200 Ft² / Gal @ 8 mils
Build Coat: 100 Ft² / Gal @ 16 mils
Topcoat: 160 Ft² / Gal @ 10 mils

WORKING TIME

15-20 Minutes @ 75°F

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

APPLICATION STEPS

- 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.

Epoxy sets up quicker in mass, mixed material should not be left sitting in bucket for periods of time

- 2 Pour a band of mixed material across the surface roughly 4-6" wide. Use 8-12 or 15-20 mil notched squeegee to gauge material across surface depending on desired application

- 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 coating to dry.
Light Foot Traffic – 16 Hours
Item Placement – 24 Hours
Vehicular – 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