

CrownPro AcidShield 7500

Product Description Sheet No. XX

Solvent-Free Novolac Chemical Resistant Liner and Coating

Description

CrownPro AcidShield 7500 is a multifunctional phenol novolac resin that is extremely chemical resistant with a high heat deflection temperature. CrownPro AcidShield 7500 is a thick film novolac lining designed to cure at ambient temperature to provide exceptional corrosion protection for surfaces in severe chemical and physical environments.

Recommended Use

- Crude and Storage Tanks
- Containment Wall and Floors
- Petrochemical Plants
- Power Generating Plants
- Food Processing Facilities
- Internal Tank and Pipe Lining Systems
- Water and Wastewater Treatment Plants
- Mining and Milling Industries
- Pulp and Paper Industry
- Steel Structures and Bridges

Advantages

- Heavy-Duty Chemical Resistant Protective Lining
- Corrosion Protection
- Abrasion Resistant
- Extremely Hard and Tough

CrownPro AcidShield 7500 will provide a high degree of protection against corrosive moisture, fumes, carbon dioxide, hydrogen sulfide, methane gases, industrial water and wastewater solutions containing salts, detergents, many acids, alkalis, and other chemicals. CrownPro AcidShield 7500 is used as a heavy-duty chemical resistant protective lining.

CrownPro AcidShield 7500 is also resistant to petroleum products such as kerosene, diesel, gasoline, aviation fuels, motor oils, lubrication materials, greases, hydraulic fluids, alcohols, aliphatic and aromatic hydrocarbon solvents.

Colors

Grey with High Gloss. Finish may vary due to texture and porosity of substrate. Chalking will occur with extended exposure to sunlight. Subject to color change.

Packaging

- 2 gallon kit: One 1 gallon can of Side-A and one 1 gallon can of Side-B.
- 10 gallon kit: One 5 gallon pail of Side-A and one 5 gallon pail of Side-B.
- 100 gallon kit: One 55 gallon drum, net fill 50 gallons of Side-A and one 55 gallon drum, net fill 50 gallons of Side-B.

Mixing

The volume mixing ratio: 1A : 1B. CrownPro AcidShield 7500 may not be diluted under any circumstances. Add CrownPro AcidShield 7500 Side-A into Side-B. Power stir product until completely mixed and uniform color appears, approximately 5 minutes, and continue agitation during application.

Typical Data for CrownPro AcidShield 7500

Material and curing conditions at 75°F (24°C), 50% R.H unless noted.

Mix Ratio by Volume	1A : 1B
Solids Content	100%
Potlife	30 - 45 Minutes
Dry Film Thickness per Coat	5 ± 1 mils 127 ± 5 Shore D
Hardness (ASTM D-2240)	80 ± 5 Shore D
Specific Gravity	
Side-A	1.17
Side-B	1.50
Total Solids by Weight (ASTM D-2369)	100%
Total Solids by Volume (ASTM D-2697)	100%
Volatile Organic Compounds (ASTM D-2369-81)	0 lb/gal 0 gm/liter

Coverage

CrownPro AcidShield 7500 may be applied at any rate to achieve desired thickness. Theoretical coverage per gallon is 1600 sq. ft. at 1 mil.

Surface Preparation

In general, coating performance is directly proportional to surface preparation. All surfaces must be clean, dry and free of oil, grease, wax, dirt, chalk, salts and other contaminants. Round off sharp edges and rough welds. Burrs and weld spatter should be completely removed.

Carbon Steel: Use SSSP Guidelines for surface preparation. Metal surfaces should have an anchor profile of 3 mils (0.003) or more. If metal substrate has "cavities" or "indentations" apply primer application coat and back roll to completely wet and thoroughly penetrate surface to ensure all voids and irregularities are filled.

For Internal Linings: Abrasive blast to SSSP-SP-5 (White metal) to achieve a surface anchor profile of 22-3 mils.

For Exterior Use: Abrasive blast to SSSP-SP-10 (Near white) to achieve a surface anchor profile of 12-2 mils.

After abrasive blasting, remove all dust or other contaminants by vacuum or dry air blow-down. Abrasive blasted metal surfaces must be primed as soon as possible, do not allow to remain overnight. If flash rusting occurs it must be re-moved.

Concrete and Masonry: Concrete and masonry to cure at least 28 days. Surface and substrate must be dry and clean. Clean and open surfaces by dry abrasive "brush-off" blast. All concrete laitance should be removed. "Blow" holes and cavities should be opened in order to properly fill and seal. Level protrusions and repair cavities, voids, and cracks. Apply primer application coat and back roll to completely wet and thoroughly penetrate surface to ensure that all irregularities are filled and sealed.

Remove all contaminants and deteriorated concrete. Brush blast to achieve roughed surface sufficient to remove laitance or surface hard-face. Vacuum all concrete surface prior to application of primer. All cracks, rock pockets and voids must be filled with non-shrink grout, and sanded. Concrete must be free of puddled water or moisture.

Application

Applied over: Carbon steel, or concrete.

Surface Preparation Method:

Carbon Steel: SSSP-SP-10, 5 or SP-12 (WJ-4)

Application temperature for CrownPro AcidShield 7500 should be between 50-110°F (air and surfaces). Do not apply product unless temperature is at least 5° above the dewpoint. Re-coat schedule is 2-8 hours at 70°F and dependent upon environment. See Specification Guide for re-coating guide-lines and additional information.

Airless: Use Graco 68:1 pump or higher, 206-718 gun with fluid tip of .019" or larger orifice size with Reverse-A-Clean tip, 3/8" I.D. or larger high-pressure solvent resistant fluid line, 1/2" I.D. or larger air supply line. Continuous air source capable of 80 to 100 psi inbound pressure at pump. Equipment of equal performance is acceptable.

Conventional Spray: Variations of conventional production spray equipment such as pressure pot, air assisted airless or high volume, low pressure systems as supplied by Binks, Graco, Nordson, Devilbiss or equal may be used.

Brush: Use solvent resistant short hair or natural bristle brush.

Roller: Use short nap synthetic covers for back rolling. Ribbed metal roller.

Equipment Cleanup

Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

Storage

CrownPro AcidShield 7500 has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15- 35°C). Avoid freezing temperatures. Store drums on wooden pallets to avoid direct contact with the ground.

Limitations

The uncured materials used in CrownPro AcidShield 7500 are very sensitive to heat and moisture. Higher temperature and/or high humidity will accelerate the cure time. Use caution in batch sizes and thickness of application. Low temperature and/or low humidity extends the cure time and the use of accelerators may be necessary.

Inspect the installed work of other trades and verify that all such work is complete so that CrownPro AcidShield 7500 may be installed.

All surfaces to receive CrownPro AcidShield 7500 must meet all applicable building and safety codes in the prescribed city, county or state, whichever has jurisdiction.

The substrate must be structurally sound and sloped for proper drainage. No liability is assumed by Polycoat Products for substrate defects and for improper surface preparation and application.

CrownPro AcidShield 7500 must cure at least 24 hours at 75°F (24°C) and 50% relative humidity before any immersion services. Cure time may be longer at lower temperature. Do not open until ready to use.

No liability is assumed by Crown Polymers for substrate defects and/or improper substrate preparation and application.

Warning

This product contains Epoxy Resin and Curatives.

FOR INDUSTRIAL USE ONLY
KEEP OUT OF REACH OF CHILDREN
KEEP CONTAINERS TIGHTLY CLOSED

LIMITED WARRANTY "Crown Polymers Corp. warrants its products to be free of manufacturing defects, to be of good quality, and that they will meet Crown Polymers current published physical properties when applied in accordance with Crown Polymers written directions and tested in accordance with ACI, ASTM and Crown Polymers Standards. Product proved to be defective will be replaced. **There are no other warranties by Crown Polymers Corp. 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 Corp. 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, from any other cause whatsoever. Crown Polymers will not be responsible for use of this product in a manner to infringe on any patent held by others."

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