



ULTRAZINC 2120

(Epoxy Zinc Rich Primer)

(Paints & Coatings)

HEAVY DUTY, HIGH PERFORMANCE

GENERIC CLASS: Ultrazinc 2120 is a polyamide cured, two component epoxy zinc rich primer.

PRODUCT DESCRIPTION: Ultrazinc 2120 contains high metallic zinc that exhibit excellent corrosion and abrasion resistance. Rapid drying. Readily accepts the variety of chemical resistant topcoats required for service in petro-chemical, pulp and paper and chemical process industries. Resistant to wide range of solvents and severe weathering.

TYPICAL USES: Ultrazinc 2120 is used as primer coating for structural steel, tanks and pipelines and general use on protective maintenance coating. Protection of industrial plant in particular, oil refineries, mining equipment, power stations, bulk handling equipment, marine and offshore structures.

LIMITATIONS: Not recommended for immersion or exposure to strong oxidizing acids and alkalies without proper topcoat.

CHEMICAL RESISTANCE GUIDE:

(with suitable topcoat)

<u>Exposure</u>	<u>Splash & Spillage</u>	<u>Fumes</u>
Acids	Very Good	Excellent
Alkalies	Very Good	Excellent
Solvents	Very Good	Excellent
Salt	Excellent	Excellent
Water	Excellent	Excellent

TEMPERATURE RESISTANCE: (Dry Basis)

Sustained	:	250°F (121°C)
Intermittent	:	300°F (148°C)

FLEXIBILITY: Fair

WEATHERING: Excellent

ABRASION RESISTANCE: Excellent

METALLIC ZINC CONTENT: 90% by weight in the dry applied film.

SUBSTRATES: Apply to properly prepared steel, cast iron, galvanized steel, stainless steel, aluminum or others as recommended.

TOPCOAT REQUIRED: Can be topcoated with catalyzed epoxies, chlorinated rubbers, vinyls, polyurethane, acrylic, silicones or others as recommended.

COMPATIBILITY WITH OTHER COATINGS:

Apply directly to substrates, inorganic zinc or weathered galvanized steel.

CALCULATED VOLUME SOLIDS:

Ultrazinc 2120 52%±2%

RECOMMENDED DRY FILM THICKNESS PER COAT:

2 - 3 mils (50 - 75 microns)

CALCULATED COVERAGE PER MIXED GALLON:

834 sq. ft. (20.5 sq. m./li. @ 25 microns)
425 sq. ft. @ 2 mils (10.43 sq. m./li. @ 50 microns)
278 sq. ft. @ 3 mils (6.83 sq. m./li. @ 75 microns)

NOTE: Assume loss factor when estimating job requirements at prevailing condition.

SHELF LIFE: 12 months minimum. Materials on stock should be turned upside down every 3-4 months.

COLORS: Gray & Green

FINISH: Matt

COMPONENT: Two

FLASH POINT: (Pensky Martens Closed Cup)
Ultrazinc 2120 (Mixed) 79°F (26°C)

SURFACE PREPARATION: Remove any oil or grease from surface to be coated with clean rags soaked in Ultracote Thinner #2 or toluol.

IMMERSION SERVICE: Dry blast to a near white metal finish in accordance to SSPC-SP-10 to a degree of cleanliness in accordance to NACE #2 to obtain 1 to 2 mils (25-50 microns) blast profile.

NON-IMMERSION SERVICE: Dry blast to a commercial grade in accordance to SSPC-SP-6 or SSPC-SP-7. Acceptable thorough power tool cleaning per SSPC-SP-3 for light chemical and industrial or marine atmospheres.

WELDING: Welding should precede coating. In the event welding or flame cutting is performed on metal already coated with this product, do so in accordance with the latest instruction in U.S.A. standard Z49:1 "Safety in welding and cutting". All welded, burned or otherwise damaged areas should be cleaned to base metal, prepared and recoated as specified.

ZINC PRIMED AND PREVIOUSLY COATED SURFACES: Contact Ultracote for specific recommendations before proceeding. Always check compatibility before application over a previously coated area.

MIXING: Mix separately then combine and mix in the following proportions by volume:

	<u>1 Gal. Kit</u>
Ultrazinc 2120 Part A	3
Ultrazinc 2120 Part B	1

MIXING RATIO: 3 parts A to 1 part B by volume. After mixing parts A and B, allow mix to stand for 10-15 minutes to have complete activation of chemicals. Remixed before application.

THINNER: Thin up to 20% by volume with Thinner #15. For hot or windy condition, use Thinner #33.

POT LIFE: 5-6 hours at 75°F (24°C) and less at higher temperature.

APPLICATION TEMPERATURES:

Material	:	60-90°F (16-32°C)
Surfaces	:	60-100°F (16-38°C)
Ambient	:	60-90°F (16-32°C)
Humidity	:	0-85%

Do not apply when surface temperature is less than 5°F (2°C) above the dew point.

APPLICATION EQUIPMENT: Air spray or airless spray. Brushing is recommended in small areas only.

AIR SPRAY: Suggested equipment or equal.

	Gun	
	<u>DeVilbiss</u>	<u>MBC or JGA</u>
Fluid Tip	E	
Air Cap (ID)	765	or 78
Air Hose (ID)	5/16"	or 3/8"
Material Hose	3/8"	or 1/2"
Atomizing		
Pressure	60-70 psi	
Pot Pressure	10-20 psi	

Use agitator pressure pot and keep at same level, or higher, then spray gun. Low temperatures or longer hoses require higher pot pressure.

AIRLESS SPRAY:

Tip	0.017" to 0.021"	Orifice Reversible Tip
Atomizing Pressure	1,800-3,000 psi	
Material Hose (ID)	1/4" or 3/8"	
Manifold Filter	60 Mesh	

Use appropriate tip and atomizing pressure for equipment, application technique and weather conditions. Keep material agitated to prevent settling.

BRUSH OR ROLLER: Use medium, natural bristle brush, with free strokes. Do not over brush. Use short nap mohair roller with phenolic core.

DRYING TIME:

To Touch	:	1 hr. @ 75°F (24°C)
Dry to Handle	:	4 hrs. @ 75°F (24°C)
Overcoating Time	:	6 hrs. @ 75°F (24°C)
Final Cure	:	7 Days

CLEAN-UP: Clean all equipment immediately after use with Thinner #2 or xylol.

STORAGE CONDITION: 40 - 110°F (4-43°C)

PACKAGING: Gallon (3.785 liters)
Pail (4 & 5 Gallons)

SAFETY INFORMATION: This product (and any recommended thinners) contains solvents and/or other chemical ingredients. Adequate health and safety precautions should be observed during storage, handling, application and curing. Keep away from sparks, heat and open flame and use necessary safety equipment such as air mask, non-sparking tools and ladders, etc. When working in tanks, rooms and other enclosed spaces, adequate ventilation must be provided. Keep out of reach of children.

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Technical and application information herein is provided for the purpose of establishing a general profile of the coating and proper coating application procedures. Test performance results were obtained in a controlled environment and Ultracote Company makes no claim that these tests or any other tests, accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating.

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