



# ULTRACOTE 101 Primer

(Epoxy Zinc Chromate Primer)

**(Paints & Coatings)**

**HEAVY DUTY, HIGH PERFORMANCE**

**GENERIC CLASS:** Epoxy polyamide type curing agent contains zinc chromate with anti-corrosive properties.

**PRODUCT DESCRIPTION:** High build, hi-performance maintenance coating with outstanding adhesion characteristic to almost any surface even under adverse painting conditions. It cures to a hard, tough film with excellent subfilm corrosion resistance.

**TYPICAL USES:** Ultracote 101 Primer is recommended for all around, general purpose exterior primer for protection of structural steel, tank exteriors, equipment, marine structures, concrete, refineries, breweries, paper mills, chemical plants, fertilizer plants subject to corrosive environments. Ultracote 101 Primer is recommended for protection of equipment and structures subject to impact and abrasion. Also recommended for priming galvanized surfaces.

**LIMITATIONS:** Not recommended for immersion, splash and spillage of strong solvents or oxidizing acids.

### CHEMICAL RESISTANCE GUIDE:

(With proper topcoat)

Exposure	Splash & Spillage	Fumes
Acids	Good	Very Good
Alkalies	Good	Excellent
Solvents	Very Good	Excellent
Salt	Excellent	Excellent
Water	Excellent	Excellent

### TEMPERATURE RESISTANCE: (Dry Basis)

Sustained	: 200°F (93°C)
Intermittent	: 250°F (121°C)

**FLEXIBILITY:** Good. Passes 1/2" bend Zuhr Conical Mandrel at 2-3 mils DFT.

**ABRASION RESISTANCE:** Very Good. 62 milligrams loss average, 1,000 cycles, taber CS-17 wheel, 1,000 grams weight.

**WEATHERING:** Good (Chalks)

**HARDNESS:** Konig Pendulum  $-48 \pm 2$  seconds; DIN standard 53157 (Glass standard 250)

**SUBSTRATES:** Ultracote 101 Primer may be applied over properly prepared steel and concrete or others as recommended.

**TOPCOAT REQUIRED:** Ultracote 101 Primer may be topcoated with catalyzed epoxies, vinyls, modified phenolics, chlorinated rubbers or others as recommended.

**COMPATIBILITY WITH OTHER COATINGS:** Ultracote 101 Primer may be used over catalyzed epoxies, inorganic zincs, phenolics or others as recommended.

### CALCULATED VOLUME SOLIDS:

Ultracote 101 Primer 50%±2%

### RECOMMENDED DRY FILM THICKNESS PER COAT:

2 - 3 mils (50 - 75 microns)

### CALCULATED COVERAGE PER MIXED GALLON:

802 sq. ft. per mil (20 sq. m./ li. @ 25 microns)  
401 sq. ft. @ 2 mils (10 sq. m./ li. @ 50 microns)  
278 sq. ft. @ 3 mils (6.60 sq. m./ li. @ 75 microns)

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

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

**COMPONENT:** Two

**FINISH:** Flat

**COLORS:** Zinc Chromate Yellow, Brownish Yellow, Red Iron Oxide

**FLASH POINT:** (Pensky-Martens Closed Cup)  
Mixed Ultracote 101 Primer 90°F (32°C)

**POT LIFE:** 4-6 hours at 75°F and lesser at higher temperature.

**APPLICATION TEMPERATURES:**

Material	:	65-85°F (18-29°C)
Surfaces	:	65-85°F (18-29°C)
Ambient	:	65-85°F (18-29°C)
Humidity	:	0-100%

**SURFACE PREPARATION:** Surface should be dry, free of oil, grease, dirt and chemicals.

**STEEL:**

1. All sharp edges shall be ground to produce a radius and all imperfections such as skip welds, delaminations, scabs and slag shall be corrected prior to abrasive blasting. Skip weld shall be welded solid.
2. For immersion service and corrosive atmosphere, dry blast to a near white finish in accordance to SSPC-SP-10 to a degree of cleanliness in accordance with NACE #2 to obtain a 1-2 mils (25-50 microns) blast profile.
3. For light industrial and marine atmosphere, dry blast clean to a commercial grade finish in accordance to SSPC-SP-6.
4. For touch up work, power tool clean per SSPC-SP-3.

**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 instructions in USA Standard Z49:1 "Safety in Welding and Cutting". All welded, burned or otherwise damage areas should be cleaned to base metal, prepared and recoated as specified.

**ALLOY STEEL, GALVANIZED STEEL AND NON-FERROUS METALS:** Chemically clean surfaces in accordance with SSPC-SP-1 (Solvent Cleaning). Abrasive "brush blast to provide a lightly profiled and etched surface.

**CONCRETE:** All concrete surfaces require whip blasting for immersion service. For atmosphere exposure, acid etch surface then wash with clean water. Do not apply coating unless concrete has cured at least 28 days.

**MIXING:** Mix separately, then combine and mix in the following proportions:

	<u>Gallon Kit</u>
Ultracote 101 Primer Part A	3/4 Gal. content (3 liters)
Ultracote 101 Primer Part B	1/4 Gal. content (1 liter)

Allow mix to stand 15-20 minutes for complete chemical activation and remix before use.

**THINNER:** Thin up to 10% by volume with Ultracote Thinner #15.

**NOTE:** Do not apply coating when the surface temperature is less than 5°F (2°C) above the dew point. Special thinning and application techniques may be required above or below normal condition.

**SPRAY EQUIPMENT RECOMMENDED:** The following equipment has been found suitable, however, equivalent equipment may be substituted.

**AIR SPRAY:** DeVilbiss MBC-510 gun, "E" tip and needle, with 704 air cap. Adjust pressure as required.

**AIRLESS SPRAY:** Graco 208-663 silver gun with .017 tip, 30-1 pump. Adjust pressure as required.

**BRUSH OR ROLLER:** Use a medium, natural bristle brush, with full strokes. Avoid rebrushing. Use short nap mohair roller with phenolic core.

**DRYING TIME:**

Surface Dry : 1-2 hours  
Hard Dry : 3 hours  
Overcoating hours : 4 hours to 48  
Full cure : 7 Days (with free air ventilation. Drying/curing retarded at lower temperature)

**CLEAN-UP:** Use Ultracote thinner #2 or toluol.

**STORAGE CONDITION:**

Temperature : 40-110°F (4-43°C)  
Humidity : 0-100%

**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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