



ULTRACOTE 213 HB Primer

(Paints & Coatings)

HEAVY DUTY, HIGH PERFORMANCE

GENERIC CLASS: Epoxy polyamide cured primer. This primer is especially formulated to provide good bonding qualities and overall chemical resistance.

PRODUCT DESCRIPTION: An economical, high-build maintenance coating primer. Cures to a hard, tough film with excellent sub-film corrosion resistance. It is designed to provide a dry film thickness up to 5 mils. Ultracote 213 HB Primer features exceptional ease of application and superior edge coverage without sagging, pin holing or mud cracking. It exhibits outstanding anti-corrosive properties.

TYPICAL USES: Ultracote 213 HB Primer is recommended for protection of various structural steel, exterior and interior of tanks for food plants, fertilizer plants, oil refineries, petrochemicals, breweries, paper mills, steel plants, concrete and other structures subjected to corrosive condition. It is also used for marine and offshore structures.

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

CHEMICAL RESISTANCE GUIDE:

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

TEMPERATURE RESISTANCE: (Dry Condition)

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

ABRASION/IMPACT RESISTANCE: Very Good

FLEXIBILITY: Fair

WEATHERING: Good (Chalks)

COMPONENT: Two

SUBSTRATES: Ultracote 213 HB Primer may be applied over properly prepared steel and concrete, others as recommended.

TOPCOAT REQUIRED: Ultracote 213 HB Primer may be topcoated with catalyzed epoxies, vinyls, chlorinated rubbers, phenolics, or others as recommended.

COMPATIBILITY WITH OTHER COATINGS: Ultracote 213 HB Primer may be used over catalyzed epoxies, zinc primers, phenolics or others as recommended.

CALCULATED VOLUME SOLIDS:

Ultracote 213 HB Primer 53%± 2%

RECOMMENDED DRY FILM THICKNESS PER MIXED GALLON:

3 - 5 mils (75 - 125 microns)

NOTE: Although 5 mils can be applied on one coat, two separate coats (2 - 3 mils each) ensure increased edge coverage and film continuity and best results is obtain.

CALCULATED COVERAGE PER MIXED GALLON:

850.12 mil sq.ft. (20.87 sq.m./li. @ 25 microns)
283.37 sq.ft. @ 3 mils (6.96 sq.m./li. @ 75 microns)
170.02 sq.ft. @ 5 mils (4.17 sq.m./li. @ 125 microns)

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

SHELF LIFE: 12 months minimum. Materials stock should be turned upside down every 3 to 6 months.

COLORS: Gray, Green, Red Oxide and Brown.

FINISH: Flat

FLASH POINT: (Pensky-Martens Closed Cup)

Ultracote 213 HB Primer	
Part A	73°F (23°C)
Ultracote 213 HB Primer	
Part B	73°F (23°C)
Ultracote Thinner #15	77°F (25°C)
Ultracote Thinner #33	104°F (40°C)

SURFACE PREPARATION:

STEEL:

1) Degrease surface prior to cleaning, organic solvents, alkaline solutions, steam, hot water with detergents or other systems that will completely remove dirt, oil and grease may be used.

2) For immersion service: Dry abrasive blast to near white grade finish in accordance to SSPC-SP-10 to a degree of cleanliness in accordance to NACE #2.

3) For exposure to splash & spillage to chemicals and fumes of highly concentrated chemicals, dry blast to a commercial grade finish in accordance with SSPC-SP-6 to a degree of cleanliness with NACE #3 to obtain 1-2 mils (25-50 microns) blast profile.

4) For exposure to splash and spillage to petroleum, oils and fumes of lightly concentrated chemical and marine exposures, brush off blast cleaning in accordance to SSPC-SP-7 or NACE #4. Acceptable power tool clean per SSPC-SP-3 for touch up work. Non-ferrous metals.

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.

CONCRETE: All concrete surfaces require whip blasting for immersion service. Fully cured concrete must be blasted to provide a hard, firm, clean and neutral surface for coating. For exposure to weather, acid etched the surface and wash with clean water.

NOTE: Apply coatings only when concrete is cured and dry.

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

Ultracote 213 HB Primer Part A	1 Gallon
Ultracote 213 HB Primer Part B	1 Gallon
(Mixing Ratio: 1 part A to 1 part B by volume).	

After mixing parts A & B, allow mix to stand 15 to 20 minutes to have complete activation of the chemicals. Remixed before application.

THINNER: Thin up to 15% by volume with Thinner #15. For hot and windy condition, above 80°F (27°C) use Thinner #33.

POT LIFE: 4-5 hours at 75°F and less at higher temperature.

APPLICATION TEMPERATURES:

Materials	:	65-90°F (18-32°C)
Surfaces	:	65-90°F (18-32°C)
Ambient	:	60-120°F (16-49°C)
Humidity	:	0-85%

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

DRYING TIME:

To Touch	:	1 hr. @ 75°F
To Recoat	:	3-6 hrs. @ 75°F
Dry Hard	:	24 hrs.
Final Cure	:	5-7 days @ 75°F to 95°F
For immersion service cure time	:	7 days minimum

SPRAY APPLICATION: All spray equipment should be thoroughly cleaned and the hose, in particular, should be free of old paint film and other contaminants. Use a 50% overlap with each pass of the gun.

CONVENTIONAL SPRAY:

<u>Mfr. & Gun</u>	<u>Fluid</u>	<u>Air</u>
DeVilbiss JGA-502	E	704
Binks #18	66-SS	63PB
Graco P800	04	02

AIRLESS SPRAY: Recommended liquid pressure is 1,500 to 2,000 psi.

<u>Mfr. & Gun</u>	<u>Pump</u>
DeVilbiss JGA-507	QFA-514
Graco 205-591	President or Bulldog 30:1

STORAGE CONDITION:

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

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

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

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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