



# ULTRACOTE 6317 HT

(High Heat Coating)

## (Paints & Coatings)

## HEAVY DUTY, HIGH PERFORMANCE

**GENERIC CLASS:** Premium grade modified silicone.

**PRODUCT DESCRIPTION:** Ultracote 6317 HT is a sophisticated silicone base coating that provide protection for exposed surfaces at elevated temperatures as well as retard scale, sand and silt build up. Ultracote 6317 HT is specially formulated to have exceptional thermal shock resistance from 1000°F (538°C) to 32°F (0°C). Ultracote 6317 HT withstands continuous temperatures of 1000°F (538°C) and surges up to 1200°F (649°C). Ultracote 6317 HT features ease of application, outstanding adhesion, extreme toughness and is relatively ease to recoat or repair. It is self-priming on most surfaces.

**TYPICAL USES:** Ultracote 6317 HT is recommended for fire tubes for oil field treaters handling hot crude, brine and waste waters at production site. Ultracote 6317 HT is also recommended as a protective coating for steel mufflers, furnaces, hot transfer lines and steam generating equipment. The principal use of Ultracote 6317 HT is in problem areas, which require an extremely high temperature resistance coating for protection.

**LIMITATIONS:** Not recommended for immersion service or exposure to splash and spillage of acids or alkalis.

**ABRASION RESISTANCE:** Good

**FLEXIBILITY:** Good

**WEATHERING:** Excellent

### CHEMICAL RESISTANCE GUIDE:

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

**TEMPERATURE RESISTANCE:** (Dry Basis)  
Sustained : 1000°F (538°C)  
Intermittent : 1200°F (649°C)

**SUBSTRATES:** Carbon steel, alloy steels and non-ferrous metals.

**TOPCOAT REQUIRED:** None required.

**PRIMER REQUIRED:** None required. A prime coat of inorganic zinc, however, will greatly increase service life over steel. Excessive film thickness of Ultracote 6317 HT over inorganic zincs may result in blistering and delamination when the temperature is increased.

**CALCULATED VOLUME SOLIDS:**  
Ultracote 6317 HT 32%±2%

### RECOMMENDED DRY FILM THICKNESS PER COAT:

1.5 mils (37.5 microns)

Two coats are recommended over steel and one coat over inorganic zinc.

### CALCULATED COVERAGE PER GALLON:

513 mil sq. ft. (12.6 sq. m./li. @ 25 microns)

342 sq. ft. @ 1 1/2 mils (8.41 sq. m./li. @ 37.5 microns)

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

**SHELF LIFE:** Six months minimum.

**COLORS:** Aluminum, Red and White  
(Other colors by special order)

**FINISH:** Not applicable

**COMPONENT:** One

**SURFACE PREPARATION:** No more surface preparation can be coated in the same working day should be performed.

**SURFACE PREPARATION: (Cont.)** Repair and fill all cavities and voids. Round off all sharp edges and rough welds. All burns and weld spatter should be completely removed. Oil, grease and heavy deposits of surface contaminants should be removed by use of Ultracote Thinner #2 or toluol. All surfaces must be clean, dry and free of any dirt, dust, chalk, grease, oils, salts, curing compounds, release agents, preservatives and other deleterious materials before application is performed.

**STEEL:** For best results, a commercial blast in accordance with SSPC-6-63 or NACE #3 is recommended but if this is not possible, then metal surfaces may be prepared in accordance with SSPC-SP-3 (Power tool cleaning) and SSPC-SP-2 (Hand tool cleaning).

**ALLOY STEEL AND NON-FERROUS METALS:** Chemically clean surfaces in accordance with SSPC-SP-1 (Solvent cleaning).

**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.

**MIXING:** Mix to a uniform consistency. Thinning normally not recommended. If thinning is necessary, thin up to 5% by volume with Ultracote Thinner #10.

**APPLICATION TEMPERATURES:**

Material : 40-90°F (4-32°C)  
 Surfaces : 50-110°F (10-43°C)  
 Ambient : 40-110°F (4-43°C)  
 Humidity : 0-85%

Do not apply 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 conditions.

**SPRAY TECHNIQUE:** Use adequate air volume for correct operation of equipment. Use a 50% overlap with each pass of the gun. On irregular surfaces, coat the edges first, making an extra pass later.

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

**CONVENTIONAL SPRAY:** Use 3/8" minimum I.D. material hose. Hold gun approximately 8-10 inches from the surface and at right angle to the surface.

<u>Mfr. &amp; Gun</u>	<u>Fluid Tip</u>	<u>Air Cap</u>
Binks #18 or #62	63B	63PB
DeVilbiss P-MBC or JGA	FX	704

**AIRLESS SPRAY:** Use 3/8" minimum I.D. material hose. Hold gun 12-14 inches from the surface and at right angle to the surface.

<u>Mfr. &amp; Gun</u>	<u>Pump</u>
DeVilbiss JGB 507	QFA-519, 32:1
Graco 205-641	Bulldog, 30:1
Use a 0.013" tip with 2200 psi. bristle brush,	

**BRUSH OR ROLLER:** Spray is recommended. When spray application is impractical, use natural bristle brush and apply with full strokes. Use short nap mohair roller with phenolic core.

**DRYING TIME:**

To Touch : 2 hrs. @ 90°F (32°C)  
 4 hrs. @ 75°F (24°C)  
 To Recoat : 8 hrs. @ 90°F (32°C)  
 12 hrs. @ 75°F (24°C)  
 Dry Hard : 24 hrs. @ 300°F  
 Final Cure : To obtain optimum properties, coating can be cured in service temperature of 350°F (177°C) to 450°F (232°C). Allow initial increase in temperature to proceed slowly up to 350°F (177°C) over six hours time period.

**NOTE:** Applied coating will remain soft until curing temperature is attained.

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

**STORAGE TEMPERATURE:**

Minimum : 40°F (4°C) to  
 Maximum : 110°F (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.

**WARRANTY & LIMITATION OF SELLER'S LIABILITY:** Ultracote Paints and Coatings Corporation, warrants only its paints represented herein meet the formulation standards of Ultracote Paints and Coatings Corporation.

THE WARRANTY DESCRIBED IN THE ABOVE PARAGRAPH SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

The buyer's sole and exclusive remedy against Ultracote Paints and Coatings Corporation shall be for replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER. The sole purpose of this exclusive remedy shall be to provide buyer with replacement of the product or refund of the purchase price of the product if any defect in materials is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Ultracote Paints and Coatings Corporation is willing and able to replace the defective materials or refund the purchase price.

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.

## **ULTRACOTE PAINTS & COATINGS CORPORATION**

**Main Office:** No. 114 Eagle St. corner F. Legaspi St., Brgy. Ugong, Pasig City, Philippines  
Tel. Nos. +63 2 671-3409 / 671-9261; Telefax Nos. +63 2 671-3410 / 671-3414

**Cebu Office:** Rm. 307 N & N Cortes Arcade, AC Cortes Avenue, Mandaue City, Philippines  
Tel. No. +63 32 344-0268; Telefax No. +63 32 344-1638

E-mail: [contact@ultracote.net](mailto:contact@ultracote.net) | Website: <http://www.ultracote.net>