

### Selection & Specification Data

<b>Product Name</b>	Mascoat 200UTC Urethane Topcoat
<b>Product No.</b>	M-200UTC
<b>Description</b>	200UTC is a 2-part, high build, high performance polyester urethane topcoat designed to be used as a finish coat for Mascoat's line of insulating coatings where long term color and gloss retention is desired. 200UTC is hard, tough, and extremely durable. The coating is designed for use in industrial environments, such as refineries, pulp/paper mills, sugar mills, and storage terminals, among others.
<b>Features</b>	<ul style="list-style-type: none"> <li>◆ Advanced UV protection</li> <li>◆ Flexible film to withstand expansion/contraction</li> <li>◆ Good chemical resistance</li> <li>◆ Outstanding long-term gloss and color retention</li> <li>◆ Exceptional adhesion properties</li> <li>◆ Consistent film build and ease of application.</li> <li>◆ Extended recoat window</li> <li>◆ Excellent long term protection</li> <li>◆ VOC Compliant</li> </ul>
<b>Color</b>	White. Custom colors available with minimum order requirement.
<b>Finish</b>	Gloss
<b>Components</b>	Dual-component with optional reducers
<b>Theoretical Volume Solids Content (mixed)</b>	64% ±1%
<b>WFT per Coat</b>	3–6 mils (75–150 μ)
<b>DFT per Coat</b>	2–4 mils (50–100 μ)
<b>Theoretical Dry Coat Coverage</b>	1026.5 ft <sup>2</sup> /gallon @ 1 mils (25 m <sup>2</sup> /liter @ 25 μ)
<b>VOC Content</b>	2.8 lbs/gallon (335 grams/liter)
<b>Limitations</b>	Service temperature should not exceed 250°F (121°C).

### Substrates & Surface Protection

Prior to applying 200UTC, the previous coating should be completely cured per manufacturer's instructions. The surface should also be free from all dirt and debris prior to application. If there is oil and/or grease present it should be removed from the surface with solvent or a commercial cleaner, which does not leave a residue according to SSPC-SP1.

### Application Equipment

Listed below are the general equipment guidelines for the application of this product.

**Conventional Sprayer** Industrial sprayers such as DeVilbiss MBC or JGA and Binks 18 or 62 having double regulated pressure pot, 3/8" I.D. minimum material hose and a .070" I.D. fluid tip and air cap are recommended.

**Airless or Air-Assisted Airless Sprayer** No thinner is necessary throughout the workable pot life window. An airless pump equivalent to Graco Bulldog 30:1 ratio at 1900-2100 psi is recommended, with a 60 mesh in line filter. Use .013" to .0315" spray tip. Good results have also been achieved with a Graco 60:1 Bulldog pump at 45 psi, using a 517-519 tip. A Graco air assisted 30:1 pump or equivalent 1900-2300 psi, and 65 psi atomizing pressure is recommended, using a 311 reversible tip. Optimum results have been achieved using a .017 tip at 2600 psi with a 3/8" ID hose and no thinning.

**Brush or Roll** No thinner is necessary throughout the workable pot life window. Use a natural bristle brush or medium nap roller with a solvent resistant fibers and core. Work coating into all. Gaps and crevices. Apply wet and avoid excessive rushing and re-rolling.

### Application Conditions

	<u>Material</u>	<u>Surface</u>	<u>Ambient</u>
<b>Minimum</b>	50°F (10°C)	50°F (10°C)	50°F (10°C)
<b>Maximum</b>	90°F (32°C)	110°F (43°C)	110°F (43°C)

Special reducing and application procedures are required outside these temperatures. Surface temperatures should be 5°F (2.7°C) above dew point to prevent condensation.

## Physical Data

Item	Results	Test Method
Cyclic Salt Fog	>1400 hrs – No blistering or rust	ASTM B-117
QUV-A 6000 Hrs	>70% gloss retention	ASTM G-154
Adhesion	Excellent	ASTM D-2247

Coating exceeds performance requirements of SSPC Coating System No. 36.00

## Resistance

Exposure	7 Day Direct Contact
Acidic	Excellent
Base	Excellent
Solvents	Good
Salt water	Excellent
Water	Excellent

## Mixing & Reducing

**Mixing** Power mix each component, then blend Part B into the Part A and mix until uniform at the following ratio:

	<u>1 Gal. Kit</u>	<u>5 Gal. Kit</u>
<b>Part A</b>	0.8 Gal (3 L)	4 gallon (15.14 L)
<b>Part B</b>	0.2 Gal (0.75 L)	1 gallon (3.79 L)

**Reducing** Reducing is not required for most applications; however M-200UTC may be reduced up to 5% by volume.

**Pot life** 3.5-4 hours at 75°F. Warmer temperatures will shorten pot life.

## Packaging, Handling, & Storage

Packaging Unit	<u>1 Gal. Kit</u>	<u>5 Gal. Kit</u>
M-200UTC Part A	0.8 Gal (3 L)	4 gallon (15.14 L)
M-200UTC Part B	0.2 Gal (0.75 L)	1 gallon (3.79 L)

### Shipping Weight

Package Unit	20 lbs. (9.1 kg)	100 lbs. (45.4 kg)
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### Flash Point

M-200UTC Part A	72°F (22°C)
M-200UTC Part B	122°F (50°C)

### Shelf Life

2 years for both Parts A & B when stored inside at 40–110°F (4.4–43.3°C)

## Cleanup & Safety

**Cleanup** Cleanup with Acetone, MEK, or Xylene

**Safety** For minimum protection, Mascoat recommends a half mask respirator with organic vapor cartridge. In confined spaces, a fresh airline respirator may be used. Eye protection recommended due to spray application method.

**Ventilation** Recommended for constricted areas.

**Clothing** Safety clothing & gloves are recommended.

**Skin Contact** If product comes into contact with skin, wash thoroughly with lukewarm water or diluted Boric Acid, and obtain immediate medical attention.

**Caution** Read and follow all caution statements on this sheet and the Safety Data Sheet. CONTAINS FLAMMABLE SOLVENTS. Vapors are heavier than air and will accumulate. Extinguish all flames and prevent all sparks. All electrical equipment and installations should be made and grounded in accordance with the National Electrical Code. Where explosion hazards exist workers are required to use non-sparking tools and wear non-sparking shoes.

## Dry & Cure Times

The following minimum times are based on a 3 mil DFT and adequate air ventilation. Higher thickness and reduced air circulation increase drying times.

Surface Temperature	To Touch	To Handle
50°F (10°C)	20-24 hours	36-48 hours
60°F (15°C)	8-10 hours	18-20 hours
70°F (21°C)	3-4 hours	10-12 hours
80°F (26°C)	2 hours	6-8 hours
90°F (32°C)	1 hours	2-4 hours

Full cure of the product is achieved after 12 hours at 75°F (24°C).