Mascoat®









Qualifies under IMO and SOLAS guidelines. NAVSEA listed for anti-sweat (No. 311354Z)

Selection & Specification Data

Product Name Mascoat Marine-DTM

Product No. MM-DTM

Description Mascoat Marine-DTM is a multi-purpose

coating that provides thermal barrier and anti-condensation protection. It combines painting and anti-condensation solutions for marine vessels and provides a drastic reduction in temperatures for its thickness.

♦ Excellent thermal barrier at low thickness

♦ IMO/SOLAS Compatible

Features
→ MED Certification

♦ Fast cure times

◆ Provides anti-condensation protection

♦ Dramatically reduces heat absorption due

to radiant heat gain

◆ Low VOC Product

♦ Extended recoat window

♦ Easy application to irregular surfaces

Base Water-based Acrylic Marine Anti-sweat

Coating

Gloss Flat

Priming Self priming over non-ferrous materials

(stainless steel & aluminum). Primers required for carbon steel substrates.

Topcoats Please consult Mascoat prior to use.

Wet Weight 5.0—5.1 lbs/gallon

(0.60 kg/liter)

Weight Dry Film 0.032-0.035 lbs/ft² at 20 mils DFT

To Area (0.156 kg/m² at 0.50 mm DFT)

Practical Volume 80-82%

Solids Content

Average 22–25 mils WFT at 70°–130°F Thickness per (0.63 mm WFT at 21°–54°C)

Thickness per Coat

Practical Dry 50-55 ft²/gal @ 20 mils Coat Coverage (1.4 m²/liter @ 0.5 mm)

VOC Content 0.06 lbs/gallon

(7.1 grams/liter)

Limitations Applications should not exceed 350°F (177°C).

Do not subject wet coating in pail form to freezing conditions. Coating should be kept

Storage freezing conditions. Coating should be k in a warehouse between 60°F and 90°F.

Vertical Sag 60-70 mils **Resistance** (1.52-1.77 mm)

Substrates & Surface Protection

Surface Prep Surface should be dry and free of foreign matter.

Surface prep can be used to NACE 1-3 (SSPC

SP 5-6) when applicable.

Ferrous Should be primed prior to application of MM-**Surfaces** DTM Coating. Since the coating is water-based,

it is important to have a boundary layer of

protection to prevent flash rusting.

Non-ferrous The coating can be applied directly to non-ferrous surfaces. Surface should be clean and

free of any oil, dirt or other foreign matter.

Application Equipment

Listed below are the general equipment guidelines for the application

of this product.

Airless Sprayer Pump Ratio: 33:1 or larger

Output per Cycle: 180cc (Minimum)

290cc (Optimum)

Volume: 1.5 gpm (5.7 lpm) or greater

Hose: 3/8" or larger with no more

than 3' of 1/4" whip. 1/2" hose recommended for

length above 50'.

Tip Size: 0.017" (for tight spots)

0.019-0.023" (Normal use)

Pressure: Minimum of 3000 PSI

Small Spray Please consult Mascoat for the Small

Application Application Sprayer. This sprayer is excellent

for small applications and touch-ups.

Brush or Roll Not recommended for this coating

Application Conditions

Surface Temperatures Surface temperatures for applications should be greater than 60°F (15°C). Lower surface temperatures will increase dry times.

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Applications

Ambient & Cold (60°–139°F, 15°–59°C): For temperatures (surface or ambient — whichever is lower), an initial tack coat is recommended of 10 mils (0.25 mm or 250 microns). This tack coat will help eliminate sag on vertical wall applications. Tack Coat should be dry to touch prior to next pass. Typical coat thickness should not exceed 20–22 mils (0.5–0.55mm) wet. Coating can be reapplied after each coat is thoroughly dry.

Hot (>140°F, >60°C): Please consult Mascoat.

Application Thickness

Product can be applied in successive coats to increase insulation ability. There are no upper

limitations.

Dryfall Dryfall within a 3 ft radius.

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Other Coating Specifications

Item	English Value (Metric Value)	Test Method
Cyclic Salt Fog	Excellent 2000 hrs	ASTM B-117
UV-A Exposure	Excellent 2000 hrs	ASTM D-5894
Humidity Cabinet	Excellent 2000 hrs	ASTM D-4585
QUV	Excellent 2000 hrs	ASTM G-154
Permeability	Less than 5 Perms	ASTM 1653-03
Transmission	Low — 4.14 grains/hr/ft ²	ASTM 1653-03
Cross Hatch Adhesion	100% 5 B	ASTM D-3359
Pull Apart Strength	260-300 psi	ASTM D-4541
Elongation Rate	Above 30%	ASTM D-638
Thermal Conductivity	0.4381 Btu-in/ft²-hr-°F (0.0698 W/m/K)	Thermal Probe Study
Reflectivity	0.85	ASTM E-903
Transmittance	0.00	Calculated
Absorptance	0.15	Calculated
Flame Spread	Class A	ASTM E-84
Smoke Developed	Class A	ASTM E-84
Cone Calorimiter	>6	ASTM E-1354-97

	Mixing & Thinning	
Mixing	Only a mud mixing paddle should be used. Use 1/2" drill motor to stir contents with paddle. Make sure drill is set to reverse to ensure that the paddle will not mar the bucket's inner wall. Please consult Mascoat for paddle, if needed. DO NOT MECHANICALLY SHAKE.	
Thinning	DO NOT THIN unless authorized in writing by Mascoat.	
Pot life	Coating is one part, so no catalyzation is	

5 gallon pail (18.92 liters) Container

Package, Handling & Storage

needed. Pail can be reused if properly sealed.

27.5-28.0 lbs/5 gallon pail **Container Wet** (12.47-12.7 kg/18.92 liters) (with pail/lid)

25.9 lbs/5 gallon pail **Net Contents**

(11.7 kg/18.92 liters)

Flash Point

None

(Setaflash)

Storage Do not subject wet coating in pail form to freezing conditions. Coating should be kept in

a warehouse between 60°F and 90°F.

Shelf Life 18 months shelf life from manufacture date.

Caution Do not let product freeze.

Cleanup & Safety

Cleanup Equipment may be cleaned with soap & water.

Safety For minimum protection, Mascoat recommends an N95 particulate respirator mask. For additional protection, a half mask respirator with organic vapor cartridge can be utilized. Eye protection

recommended due to spray application method. Ventilation Recommended for constricted areas.

Caution This material is not for human consumption. Clothing Safety clothing & gloves are recommended.

Dry Times vs. Humidity

Surface Temperature	% Humidity	Time Between Coats (hours)
61-70°F (16-21°C)	10—30%	4.00
	31–50%	5.50
	51—70%	6.50
	>70%	8.00
74 90°E (22 26°C)	10-30%	2.00
	31–50%	3.00
71-80°F (22-26°C)	51—70%	3.50
	>70%	4.00
	10-30%	1.50
94 00°E (27 22°C)	31–50%	2.00
81–90°F (27–32°C)	51—70%	2.50
	>70%	3.00
	10-30%	1.25
04 400°E (22 27°C)	31–50%	1.50
91–100°F (33–37°C)	51—70%	1.75
	>70%	2.00
	10-30%	1.00
404 440°E (00 40°O)	31–50%	1.25
101-110°F (38-43°C)	51-70%	1.50
	>70%	1.75
111—120°F (44—49°C)	10-30%	0.75
	31–50%	1.00
	51-70%	1.25
	>70%	1.50

This is the estimated dry time for 15-20 mils (0.38-0.50 mm) of Mascoat Marine-DTM wet. Dry time may vary depending on other conditions such as wind or enclosed environments. Lighter thickness passes will expedite dry times. Forced ventilation in confined areas will also expedite dry times.

Mascoat strongly recommends measuring moisture levels of coating using a moisture meter prior to recoat and topcoating. Moisture readings should be less than 12% prior to recoat and 0% prior to topcoating. For more information, please reference the Moisture Meter Memo available from your Mascoat representative.

Cure Times

Temperature	Cure Time	
50-60°F (10-15°C)	60-72 hrs	
61-70°F (16-21°C)	48-60 hrs	
71-80°F (22-26°C) 36-48 hrs		
81-90°F (27-32°C)	81–90°F (27–32°C) 20–24 hrs	
91-100°F (33-37°C)	18–20 hrs	
>100°F (>37°C)	14—16 hrs	

The data within is true to the best of our knowledge on the date of publication and is subject to change without prior notice. We guarantee our products to conform to Mascoat quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. All logos are property of their respective owners.