



Mascoat
INDUSTRIAL-DTX



Selection & Specification Data

Product Name	Mascoat Industrial-DTX
Product No.	MI-DTX
Description	Mascoat Industrial-DTX is a ceramic epoxy insulating coating that provides an insulating barrier, reduces condensation development, and blocks corrosion all in one application. The coating is specifically designed to be a multiple purpose coating solving painting and insulating issues. This product is damp surface tolerant, but excess moisture must be removed prior to application.
Features	<ul style="list-style-type: none"> ◆ Provides anti-condensation protection ◆ Excellent thermal insulation at low thickness ◆ Excellent personnel protection ◆ Prevents Corrosion Under Insulation (CUI) ◆ Provides inspection ability w/o removal ◆ Fast cure times ◆ High volume solids ◆ Easy application to irregular surfaces ◆ Durable Finish
Base	Water-based Epoxy Insulation Coating
Gloss	Flat
Priming	Self priming over non-ferrous materials (stainless steel & aluminum). Primer required for carbon steel substrates.
Topcoats	Please consult Mascoat.
Wet Weight (Mixed)	6.4 lbs/gallon (0.77 kg/liter)
Average Coat Thickness	40–50 mils WFT at 50°–130°F, including a 10-15 mil tack coat (1.0–1.25 mm WFT at 10°–54°C including a 0.25–0.4 mm tack coat)
Weight Dry Film To Area	0.14 lbs/ft ² at 40 mils DFT (0.66 kg/m ² at 1.0 mm DFT)
Practical Volume Solids Content	66%
Practical Dry Coat Coverage	25–27 ft ² /gallon @ 40 mils (0.61 m ² /liter @ 1 mm)
VOC Content	0.44 lbs/gallon (52.4 grams/liter)
Limitations	Applications should not exceed 200°F (94°C).
Storage	Do not subject wet coating in pail form to freezing conditions. Coating should be kept in a warehouse between 40°F and 90°F.
Packaging	2 Parts 4.75 Gallons (Part A) & 1 Quart (Part B) (18 Liters (Part A) & 0.95 Liters (Part B))

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. This product will tolerate application to slightly damp surfaces, although application to surfaces with visible running water should be avoided.
Ferrous Surfaces	Should be primed prior to application of MI-DTX Insulating Coating. Since the coating is water-based, it is important to have a boundary layer of protection to prevent flash rusting.
Non-ferrous Surfaces	The coating can be applied directly to non-ferrous surfaces after thorough solvent cleaning (SSPC SP1). 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:	45:1 or larger
	Output per Cycle:	Minimum 180cc Optimum 290cc
	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
	<i>*This product was tested using a Graco TexSpray Mark X240 volt unit with a maximum output of 3300 psi and 2.1 gpm.</i>	
Small Spray Application	Please consult Mascoat for the Small Application Sprayer Instructions.	
Brush	Not recommended for this coating	
Rolling	Not recommended for this coating	

Other Coating Specifications

Item	English Value (Metric Value)	Test Method
Solar Reflectivity	0.81	ASTM C-1549
Permeance	20.7 Perms	ASTM E-96B
Water Vapor Transmission	8.47 grains/hr-ft ²	ASTM E-96B
Flame Spread	Class A	ASTM E-84
Smoke Developed	Class A	ASTM E-84
Pull Apart Strength	Pass	ASTM D-4541

Application Conditions

Ambient Temperatures	Temperatures for applications should be greater than 50°F (10°C) or above. Lower surface temperatures will adversely affect dry times.
Applications	<i>Ambient & Cold (50°–139°F, 10°–59°C):</i> An initial tack coat of 10-15 mils (0.25–0.4 mm) is recommended. This coat will help eliminate sag on vertical applications. Tack coat should be dry to touch prior to next pass, approximately 10-30 minutes depending on ambient conditions. Typical coat thickness should not exceed 40–50 mils (1.0–1.25 mm) wet. Coating can be reapplied after each coat is thoroughly dry (see Dry Times vs. Humidity Chart in this document).
Dryfall	Dryfall within a 6 ft radius at ambient conditions of 70°F (21°C) or higher

Mixing & Thinning

Mixing	Use a mud mixing paddle to stir Part A for 30-60 seconds or until coating is uniform. 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. Mix in the contents of the material from Part B while under agitation. Stir until the mixture is uniform, approximately 60-90 seconds. After mixing, allow a 15 minute induction period and then mix again. Consult Mascoat for paddle, if needed. DO NOT MECHANICALLY SHAKE.
Thinning	DO NOT THIN unless authorized in writing by Mascoat.
Pot life	This is a 2 component product. The pot life is 2 hours after mixing at 75°F. Warmer temperatures will shorten pot life. The material may remain fluid after that time but will not dry properly or give the desired resistance properties. Any unused material at the end of 2 hours should be discarded. Lines must be cleaned with water if pump will be depressurized for any amount of time.
Container	2 parts. 5 gallon pail containing 4.75 gallons of Part A. 1 quart of Part B. Total is 5 gallons (18.92 liters).

Cleanup & Safety

Cleanup	Equipment may be cleaned with soap & water.
Safety	Half-face respirator recommended with an organic vapor cartridge or better. Eye protection recommended.
Ventilation	Recommended for constricted areas.
Caution	This material is not for human consumption.
Clothing	Safety clothing & gloves are recommended.

Package, Handling & Storage

Container Wet (with pail/lid)	5 Gallon Container - 33-34 lbs (15-15.4 kg/18.92 liters) 1 Gallon Container - 9.0-11.0 lbs (4.08-5.0 kg/3.875 liters)
Net Contents	30 lbs/5 gallon pail (14.3 kg/18.92 liters) 2.0 lbs/1 Quart (0.95 kg/liter)
Flash Point (Setaflash)	None
Storage	Do not subject wet coating in pail form to freezing conditions. Coating should be kept in a warehouse at 40–90°F (5–32.2°C).
Caution	Do not let product freeze.

Dry Times vs. Humidity

Surface Temperature	% Humidity	Time Between Coats (hours)
51–60°F (10–15°C)	10–30%	6.00
	31–50%	8.00
	51–70%	10.00
	>70%	12.50
61–70°F (16–21°C)	10–30%	4.00
	31–50%	5.50
	51–70%	6.50
	>70%	8.00
71–80°F (22–26°C)	10–30%	2.00
	31–50%	3.00
	51–70%	3.50
	>70%	4.00
81–90°F (27–32°C)	10–30%	1.50
	31–50%	2.00
	51–70%	2.50
	>70%	3.00

Use 90° thumb test or moisture meter prior to recoat. This is the estimated dry time for 20-30 mils (0.5-0.75 mm) of Mascoat Industrial-DTX 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.

Cure Times

Temperature	Cure Time
50–60°F (10–15°C)	7 days
61–70°F (16–21°C)	7 days
71–80°F (22–26°C)	7 days
81–90°F (27–32°C)	7 days

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.