





		Substrates & Surface Protection		
Selection	on & Specification Data	Surface Prep		be dry and free of foreign matte an be used to NACE 1-3 (SSP0 pplicable.
Product Name	Mascoat Industrial-DTI	Ferrous		ed prior to application of MI-DI
Product No. Description	MI-DTI Mascoat Industrial-DTI is a composite	Surfaces	based, it is imp	ng. Since the coating is water ortant to have a boundary laye prevent flash rusting.
Description	ceramic & silica-based insulating coating that provides an insulating barrier, protects personnel and blocks corrosion all in one application. The coating is specifically designed to be a multiple purpose coating	Non-ferrous Surfaces	ferrous surfaces	an be applied directly to non s. Surface should be clean an lirt or other foreign matter.
		Application Equipment		
Features	 solving painting and insulating issues. Excellent thermal insulation at low thickness Excellent personnel protection 		ne general equipm	nent guidelines for the application
		of this product. Airless Sprayer	Pump Ratio:	33:1 or larger
	 Prevents Corrosion Under Insulation (CUI) Provides anti-condensation protection 		Volume:	1.5 gpm (5.7 lpm) or greater
	 Provides inspection ability w/o removal Fast cure times Low VOC Product Highest volume solids insulation coating 		Hose:	3/8" or larger with no more than 3' of 1/4" whip. 1/2" hose recommended for length above 50'.
	on the market ◆ Easy application to irregular surfaces		Tip Size:	0.017" (for tight spots) 0.019—0.023" (Normal use)
Base	Water-based Acrylic Insulation Coating		Pressure:	Minimum of 3000 PSI
Gloss Color	Flat White, tan, grey, black. Custom tinting on request.	Small Spray Application		Mascoat for the Small This gun is excellent for small I touch-ups.
Priming	Self priming over non-ferrous materials (stainless steel & aluminum). Primer required for carbon steel substrates.	Brush	less than 0.5 ft ² coating perform	recommended for touch-up of (0.04 m ²). Brushing can inhibit ance. Please consult Mascoat shing instructions.
Topcoats	Please consult Mascoat.	Rolling		led for this coating
Wet Weight	5.2–5.3 lbs/gallon (0.63 kg/liter)		oplication (-
Weight dry film to area	0.035 lbs/ft ² at 20 mils dft (0.170 kg/m ² at 0.50 mm dft)	Surface Temperatures	greater than 60°	atures for applications should be F (15°C) or above. Lower surface
Practical Volume Solids Content	78-80%	Annlingtions	•	Il increase dry times.
Average Coat Thickness	20—22 mils WFT at 70°—130°F (0.5 mm WFT at 21°—54°C	Applications	temperatures (si lower), an initial	Id (60°-139°F, 15°-59°C): Fo urface or ambient – whichever is tack coat is recommended of 10
Practical Dry Coat Coverage	50—55 ft²/gal @ 20 mils (1.3 m²/liter @ 0.5 mm)		help eliminate s	r 250 microns). This tack coat wi ag on vertical wall applications ld be dry to touch prior to nex
VOC Content	0.06 lbs/gal (7.6 grams/liter)		pass. Typical co 20—22 mils (0.5	bat thickness should not exceed —0.55mm) wet. Coating can be
Limitations	Applications should not exceed 400°F (200°C).			ach coat is thoroughly dry. 0°C): Please consult Mascoat.
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.	Application Thickness	Product can be	applied in successive coats to tion ability. There are no uppe
Mascoat Products 2		Dryfall	Dryfall within a	3 ft radius MI-DTI 0910

- INDUSTRIAL—DTI —

Other Coating Specifications				
ltem	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	Low — 4.98 perms (3.28 grams/24 hrs/m ² /mm/hg	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—360 psi	ASTM D-4541		
Elongation Rate	Above 30%	ASTM D-638		
Thermal Conductivity	0.4381 Btu-in/ft ² -hr-°F (0.0698 W/m/K)	Thermal Probe Study		
Thermal Emittance	0.85	ASTM C-1371		
Solar Reflectivity	0.82—0.86	ASTM C-1549		
Transmittance	0.00	Calculated		
Emissivity/ Absorptance	0.14—0.18	Calculated		
Flame Spread	Class A	ASTM E-84/87		
Smoke Developed	Class A	ASTM E-84/87		
Cone Calorimiter	>6	ASTM E- 1384-97		

Mixing & Thinning

- MixingOnly 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.
- ThinningThinning is normally not needed. Please consult
Mascoat for specific instructions if thinning is
desired.
- Pot lifeCoating is one part, so no catalyzation is
needed. Pail can be reused if properly sealed.
- Container 5 gallon pail (18.92 liters)

Package, Handling & Storage

Container Wet (with pail/lid) 27.5–28.0 lbs per 5 gallon pail (12.47–12.7 kg per 18.92 liters)			
Net Contents	25.9 lbs per 5 gallon pail (11.7 kg per 18.92 liters)		
Flash Point (Setaflash)	None		
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	One year shelf life from manufacture date.		
Caution	Do not let product freeze.		

Cleanup & Safety		
Cleanup	Equipment may be cleaned with soap & water	
Safety	Half-face respirator recommended with ammonia 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	

Dry Times vs. Humidity

Surface Temperature	% Humidity	Time Between Coats (hours)
	10—30%	6.00
51–60°F (10–15°C)	31—50%	8.00
	51—70%	10.00
	>70%	12.50
	10—30%	4.00
61—70°F (16—21°C)	31—50%	5.50
	51—70%	6.50
	>70%	8.00
	10—30%	2.00
71–80°F (22–26°C)	31—50%	3.00
/ I=00 F (22=20 C)	51—70%	3.50
	>70%	4.00
	10—30%	1.50
81–90°F (27–32°C)	31—50%	2.00
01-90 F (27-32 C)	51—70%	2.50
	>70%	3.00
	10—30%	1.25
91–100°F (33–37°C)	31—50%	1.50
91–100 F (33–37 C)	51—70%	1.75
	>70%	2.00
	10—30%	1.00
101–110°F (38–43°C)	31—50%	1.25
	51—70%	1.50
	>70%	1.75
	10—30%	0.75
111—120°F (44—49°C)	31—50%	1.00
111-120 F (44-49 C)	51—70%	1.25
	>70%	1.50
	10—30%	0.50
121–130°F (50–54°C)	31—50%	0.75
	51—70%	0.75
Γ	>70%	1.00

Use 90° thumb test or moisture meter prior to recoat. This is the estimated dry time for 15–20 mils (0.38–0.50 mm) of Mascoat Industrial-DTI 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)	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)	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.



