





		Substra	ates & Surfa	ace Protection
Selecti	on & Specification Data	Surface Prep		e dry and free of foreign matter be used to NACE 1-3 (SSPC plicable.
Product Name Product No.	Mascoat Industrial-DTI MI-DTI	Ferrous Surfaces	Insulating Coatin	d prior to application of MI-DT g. Since the coating is water rtant to have a boundary laye
Description	Mascoat Industrial-DTI is a composite			revent flash rusting.
·	ceramic & silica-based insulating coating that provides an insulating barrier, protects personnel and blocks corrosion all in one application. The coating is specifically	Non-ferrous Surfaces	ferrous surfaces.	be applied directly to non Surface should be clean and t or other foreign matter.
	designed to be a multiple purpose coating solving painting and insulating issues.	Application Equipment		
Features	<ul> <li>Excellent thermal insulation at low thickness</li> </ul>	Listed below are the of this product.	ne general equipme	ent guidelines for the application
	<ul> <li>Excellent personnel protection</li> <li>Prevents Corrosion Under Insulation (CUI)</li> <li>Provides anti-condensation protection</li> </ul>	Airless Sprayer	Pump Ratio:	33:1 or larger
			Volume:	1.5 gpm (5.7 lpm) or greater
<ul> <li>♦ Provide:</li> <li>♦ Fast cur</li> <li>♦ Low VO</li> </ul>	<ul> <li>Provides inspection ability w/o removal</li> <li>Fast cure times</li> <li>Low VOC Product</li> <li>Highest volume solids insulation coating</li> </ul>		Hose:	3/8" or larger with no more than 3' of 1/4" whip. 1/2" hose recommended for length above 50'.
	<ul><li>on the market</li><li>Easy application to irregular surfaces</li></ul>		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 Priming	Flat Self priming over non-ferrous materials (stainless steel & aluminum). Primer required			This gun is excellent for small
Topcoats	for carbon steel substrates. Please consult Mascoat.	Brush	Brushing is only recommended for to less than 0.5 ft <sup>2</sup> (0.04 m <sup>2</sup> ). Brushing o coating performance. Please consult	
Wet Weight	5.2–5.3 lbs/gallon (0.63 kg/liter)		for detailed brush	ing instructions.
Weight dry film to area	0.035 lbs/ft <sup>2</sup> at 20 mils dft (0.170 kg/m <sup>2</sup> at 0.50 mm dft)	Rolling	Not recommende	-
Practical Volume Solids Content Average Coat		Surface Temperatures	greater than 60°F	tures for applications should be (15°C) or above. Lower surface increase dry times.
Thickness	(0.5 mm WFT at 21°–54°C	Applications	•	/ (60°—139°F, 15°—59°C): Fo
Practical Dry Coat Coverage	50—55 ft²/gal @ 20 mils (1.3 m²/liter @ 0.5 mm)	Applications	temperatures (surface or ambient – whichever lower), an initial tack coat is recommended of 1	
VOC Content	0.06 lbs/gal (7.6 grams/liter)		mils (0.25 mm or 250 microns). This tack coat w help eliminate sag on vertical wall application Tack coat should be dry to touch prior to ne pass. Typical coat thickness should not excer 20–22 mils (0.5–0.55mm) wet. Coating can be reapplied after each coat is thoroughly dry.	
Limitations	Applications should not exceed 375°F (190°C).			at thickness should not exceed -0.55mm) wet. Coating can be
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.			°C): Please consult Mascoat.
		Application Thickness	Product can be a	applied in successive coats to on ability. There are no uppe
Mascoat		Dryfall	Dryfall within a 3	ft radius MI-DTI 101:

### - 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 <sup>2</sup> /mm/hg	ASTM 1653-03		
Transmission	Low – 4.14 grains/hr/ft <sup>2</sup>	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 <sup>2</sup> -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.<br/>Use 1/2" drill motor to stir contents with paddle.<br/>Make sure drill is set to reverse to ensure that<br/>the paddle will not mar the bucket's inner wall.<br/>Please consult Mascoat for paddle, if needed.
- ThinningThinning is normally not needed. Please consult<br/>Mascoat for specific instructions if thinning is<br/>desired.
- Pot lifeCoating is one part, so no catalyzation is<br/>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	18 months 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	ing 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°E (16 21°C)	31—50%	5.50
61—70°F (16—21°C)	51—70%	6.50
Γ	>70%	8.00
	10—30%	2.00
	31—50%	3.00
71—80°F (22—26°C)	51—70%	3.50
Γ	>70%	4.00
	10—30%	1.50
	31—50%	2.00
81—90°F (27—32°C)	51—70%	2.50
	>70%	3.00
	10—30%	1.25
04 400°E (33 37°C)	31—50%	1.50
91–100°F (33–37°C)	51—70%	1.75
Γ	>70%	2.00
	10—30%	1.00
404 440°E (39 43°C)	31—50%	1.25
101–110°F (38–43°C)	51—70%	1.50
Γ	>70%	1.75
	10—30%	0.75
	31—50%	1.00
111—120°F (44—49°C)	51—70%	1.25
	>70%	1.50
	10—30%	0.50
121 120°E (E0 E4°O)	31—50%	0.75
121–130°F (50–54°C)	51—70%	0.75
Г	>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	

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