M Mascoa WEATHERBLOC-HRC



REFLECTIVE THERMAL INSULATING COATING



Selection & Specification Data

Product Name	Mascoat WeatherBloc-HRC				
Product No.	MWB-HRC				
Description	Mascoat V based acry of air-enca that produ- It is specifi warehouse homes, po coolers, w	vic reflect psulated ce thermatically des es, barns rtable bu	tive coati , insulatir al insulati igned for , storage ildings, c	ng compr ng particle on qualiti rooftops, areas, m	ised es es. obile
Features	 Excellent thermal insulation at low thickness Excellent solar reflectance Excellent application characteristics Fast recoat times Helps deaden sound Applies to almost any surface Helps to seal walls and membranes Ultra-low VOC content 				
Base	Water-based Acrylic Insulation Coating				
Gloss	Flat				
Priming	Self priming over non-ferrous materials (stainless steel & aluminum). Primer is required for carbon steel substrates.				
Wet Weight	0.72 kg/liter (6.0 lbs/gallon)				
Weight Dry Film To Area	0.24 kg/m ² at 0.50 mm DFT (0.48 lbs/ft ² at 20 mils DFT)				
Volume Solids Content	75%				
Average Thickness per Coat	0.5 mm DFT at 21°–54°C (20-22 mils DFT at 70°–130°F)				
Practical Dry Coat Coverage	DRY COAT THICKNESS	0.38 mm (15 mils)	0.5 mm (20 mils)	0.75 mm (30 mils)	
(per 5 gallon containter)	SQUARE METER	31–34	22–25	15–17	
	SQUARE FEET	333–366	250–275	166–183	
VOC Content	21 g/liter (0.18 lbs/g	allon)			
Storage	Do not sub freezing co in a wareh (60°F–95°I	oject wet onditions ouse bet	Coating	should be	e kept

Substrates & Surface Protection

Surface should be clean, dry, and free of foreign Surface Prep matter. Surface prep can be used to NACE 1-3 (SSPC SP 5-6) when applicable. Should be primed prior to application of MWB-Ferrous Surfaces HRC Insulating Coating. Non-ferrous The coating can be applied directly to non-Surfaces ferrous surfaces. **Concrete and** Surface should be fully cured prior to application Cement of MWB-HRC. Due to the porous nature of Surfaces concrete/cement, coverage rate variations should be taken into account prior to application. A sealer can be applied prior to WB-HRC, but sealer manufacturer instructions for topcoating should be followed. Application Equipment 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 for applications should

Surface be greater than 60°F (10°C). Lower surface **Temperatures** temperatures will increase dry times. Ambient & Cold (60°-120°F, 15°-49°C): For **Applications** 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. Coating can be reapplied after each coat is thoroughly dry. Hot (>140°F, >60°C): Not recommended Application Product can be applied in successive coats to Thickness increase insulation ability. There are no upper limitations. Dryfall

Dryfall within a 10 ft radius.



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
Cross Hatch Adhesion	100% 5 B	ASTM D-3359
Pull Apart Strength	>280 psi	ASTM D-4541
Elongation Rate	Above 30%	ASTM D-638
SRI	108	ASTM E-1980
Thermal Emittance	0.85	ASTM C-1371
Solar Reflectivity	0.86	ASTM C-1549
Flame Spread	Class A	ASTM E-84
Smoke Developed	Class A	ASTM E-84
Fire Rating	Class A	ASTM E-84

Mixing & Thinning

Mixing	Only a mud mixing paddle should be used. Use 1/2" drill motor to stir contents with paddle. <i>Make sure drill is set to reverse to ensure that</i> <i>the paddle will not mar the bucket's inner wall.</i> 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 needed. Pail can be reused if properly sealed.

Container 5 gallon pail (18.92 liters)

Package, Handling & Storage

Container Wet (with pail/lid)	14.5 kg /18.92 liters (32.0 lbs/5 gallon pail)
Net Contents	13.6kg/18.92 liters (30.0 lbs/5 gallon pail)
Flash Point (Setaflash)	None
Storage	Do not subject wet coating in pail form to freezing conditions. Coating should be kept in a warehouse between 15°C and 32°C (60°F and 90°F).
Shelf Life	aliu 90 F).
Caution	18 month shelf life from manufacture date.
	Do not let product freeze.

Dry Times vs. Humidity

Surface Temperature	% Humidity	Time Between Coats (hours)
	10—30%	4.00
61—70°F (16—21°C)	31—50%	5.50
01-70 F (10-21 C)	51—70%	6.50
	>70%	8.00
	10—30%	2.00
74 00°E (00 00°C)	31—50%	3.00
71–80°F (22–26°C)	51—70%	3.50
	>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
	31—50%	1.50
91–100°F (33–37°C)	51—70%	1.75
	>70%	2.00
	10—30%	1.00
404 440°E (20 42°O)	31—50%	1.25
101—110°F (38—43°C)	51—70%	1.50
	>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
404 420°E (E0 E4°O)	31—50%	0.75
121—130°F (50—54°C)	51—70%	0.75
	>70%	1.00

Dry times are based on 0.5 mm (20 mil) coats. Thicker coats may require longer dry times. 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 WeatherBloc-HRC 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.

Cur	e 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

	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.

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.