



Qualifies under
IMO and SOLAS guidelines.

Selection & Specification Data

Product Name	Mascoat Sound Control-dB4
Version No.	4.0
Description	Mascoat Sound Control-dB4 is a flexible, adhesive, environment-friendly coating that bonds directly to a wide range of surfaces. It reduces excessive sound from structural or mechanical noise and is compromised of noise suppressants encased in an acrylic binder.
Features	<ul style="list-style-type: none"> ◆ IMO/SOLAS Compatible (Class A fire rated) ◆ Outstanding Transmission Loss ◆ Excellent Damping to Weight Ratio ◆ Easy Application ◆ Low VOC Product ◆ Fast Drying and Curing Times ◆ Applies to Most Any Surface ◆ Only damping coating with multiple Type approvals
Base	Water-based Acrylic Sound Damping Coating
Gloss	Flat
Priming	Self priming over non-ferrous materials (stainless steel & aluminum). Primer required for carbon steel substrates.
Topcoats	Please consult Mascoat for specific details.
Wet Weight	12.75 lbs/gallon (1.53 kg/liter)
Weight Dry Film To Area	0.38–0.4 lbs/ft ² at 40 mils DFT (1.9–2.0 kg/m ² at 1.0 mm DFT)
Volume Solids Content	65-68%
Average Thickness Per Coat	40–50 mils WFT at 70°–130°F (1.0–1.25 mm WFT at 21°–54°C)
Practical Dry Coat Coverage	20-25 ft ² /gallon @ 40 mils DFT (1 m ² /2 liters @ 1.0 mm DFT)
VOC Content	0.26 lbs/gallon (31.3 g/liter)
Limitations	Applications should not exceed 300°F (150°C).
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.

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 Surfaces	Should be primed prior to application of MSC-dB Sound Damping 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. 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 Application	Please consult Mascoat for the Small Application Sprayer. This sprayer is excellent for small applications and touch-ups.	
Brush or Roll	For small areas only	

Application Conditions

Surface Temperatures	Surface temperatures for applications should be greater than 60°F (15°C). Lower surface temperatures will increase dry times.
Applications	<p><i>Ambient & Cold (60°–139°F, 15°–59°C):</i> 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.</p> <p><i>Hot (>140°F, >60°C):</i> Please consult Mascoat.</p>
Application Thickness	Product can be applied in successive coats to increase performance. There are no upper limitations.
Dryfall	Dryfall within a 3 ft radius.

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
Cross Hatch Adhesion	100% 5 B	ASTM D-3359
Pull Apart Strength	1125 psi	ASTM D-4541
Elongation Rate	Pending	ASTM D-638
Flame Developed	Class A	ASTM-E-84
Smoke Developed	Class A	ASTM-E-84
IMO Test	Passes	Part 5/2

Package, Handling & Storage

Container	5 Gallon Pail (18.92 Liters)
Container Wet (with pail/lid)	66–68 lbs/5 gallon pail (29–31 kg/18.92 liters)
Net Contents (wet)	63–64 lbs/5 gallon pail (28–30 kg/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 (15°C-32°C).
Shelf Life	24 month shelf life from manufacture date.
Caution	Do not let product freeze. Do not shake bucket.

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 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.

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.
Clothing	Safety clothing & gloves are recommended.

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Reduction of Structure Borne Noise, dB

Material	Thick-ness Ratio	Octave-Band Center Frequency, Hz								
		31.5	63	125	250	500	1000	2000	4000	8000
Alumi-num	2	11	12	13	14	14	14	13	13	13
	1.5	10	11	12	13	13	13	13	13	13
	1	8	10	11	12	12	12	12	12	12
	0.5	5	6	8	8	9	9	9	9	9
	0.3	3	4	5	6	7	7	7	7	7
Steel	2	12	14	15	15	15	15	15	15	15
	1.5	10	12	14	14	14	14	14	14	14
	1	8	10	11	12	12	12	12	12	12
	0.5	4	6	8	8	8	8	8	8	8
	0.3	1	3	5	5	5	6	6	6	6

Dry Times vs. Humidity

Surface Temperature	% Humidity	Time Between Coats (hours)
61–70°F (16–21°C)	10–30%	2.00
	31–50%	3.00
	51–70%	4.00
	>70%	6.00
71–80°F (22–26°C)	10–30%	1.50
	31–50%	2.00
	51–70%	2.50
	>70%	3.00
81–90°F (27–32°C)	10–30%	1.00
	31–50%	1.75
	51–70%	2.00
	>70%	2.25
91–100°F (33–37°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 Sound Control-dB4 wet. Dry time may vary depending on other conditions such as wind or enclosed environments. Use 90° thumb test or moisture meter prior to recoat. Moisture readings should be less than 12% prior to recoat and 0% prior to topcoating. Lighter thickness passes will expedite dry times. Forced ventilation in confined areas will also expedite dry times and is always recommended in confined spaces.

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