



Selection & Specification Data

Product Name	Delta dB Sound Damping Coating
Product Number	DdB V2
Generic Type	Water-based Acrylic Sound Damping Insulation Coating
Description	Delta dB V2 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 comprised of noise suppressants encased in an acrylic binder.
Features	<ul style="list-style-type: none"> ◆ IMO/SOLAS Compatible (Class A fire rated) ◆ MED Certification ◆ Outstanding Transmission Loss ◆ Excellent Damping to Weight Ratio ◆ Highest volume solids damping product on the market ◆ Easy application characteristics with vertical hang of >40 mils (1.0mm) ◆ Applies to most any surface easily ◆ Fast drying and curing ◆ No harmful organic compounds
Gloss	Flat
Color	White, Light Grey, Medium Grey, Dark Grey & Tan. Custom tinting can be done at special request.
Priming	Self-priming over non-ferrous materials (stainless steel & aluminum). Primers are required for carbon steel substrates.
Topcoats	Please consult Mascoat
Wet weight	13.9–14.1 lbs/gal (1.6 kg/liter)
Weight dry film to area	0.17 lbs/ft ² at 20 mils DFT (0.83 kg/m ² at 0.5 mm DFT)
Volume Solids Content	73–75%
Average Coat Thickness	70°–130°F 40 mils WFT (21°–54°C 1.0 WFT)
Practical Wet Coat Coverage	35–40 ft ² /gal @ 40mils (0.9–1.1 m ² /liter @ 1.0 mm)
Practical Dry Coat Coverage	25–30 ft ² /gal @ 40mils (0.61–0.73 m ² /liter @ 1.0 mm)
VOC Content	Low
Limitations	Sustained temperatures should not exceed 300°F (150°C) or peak areas above. Do not subject wet coating in pail format to freezing conditions.

Substrates & Surface Preparation

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 DdB. Since the coating is water-based, it is important to have a boundary layer of protection to eliminate a flash rusting.
Non-ferrous Surfaces	The coating can be applied directly to non-ferrous surfaces. Surface should be clean and free of oil, dirt or any other foreign matter.

Application Equipment

Listed below are the general equipment guidelines for the application of this product.

Airless Sprayer	<table border="0"> <tr> <td>Pump Ratio:</td> <td>20:1 or greater</td> </tr> <tr> <td>Volume:</td> <td>0.75 gpm (0.2 lpm) or greater</td> </tr> <tr> <td>Hose:</td> <td>3/8" or larger with no more than 3' of 1/4" whip. 1/2" hose recommended for length above 50'.</td> </tr> <tr> <td>Tip Size:</td> <td>.017" (for tight spots) .019–.023" (for normal use)</td> </tr> <tr> <td>Pressure:</td> <td>Minimum of 2500 PSI</td> </tr> </table>	Pump Ratio:	20:1 or greater	Volume:	0.75 gpm (0.2 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:	.017" (for tight spots) .019–.023" (for normal use)	Pressure:	Minimum of 2500 PSI
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Pressure:	Minimum of 2500 PSI										
Small Spray Application	Please consult Mascoat for the sprayer. This gun is excellent for small applications & touchups.										
Brush	Brushing is only recommended for small areas or for use as a touchup. Please consult Mascoat for detailed instructions. Slight thinning of the coating may be required.										
Roller	Product can be rolled using low matt roller. Thinning may be required.										

Application Conditions

Surface Temperatures	Surface temperatures for applications should be 60°F (15°C) or above. Lower surface temperature 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 to eliminate sag on vertical wall applications. Tack coat should be dry to touch prior to next pass. Typical coat thickness should not exceed 40 mils (1.0) wet. Coating can be reapplied after each coat is thoroughly dry.</p> <p><i>Hot (>140°F, >60°C):</i> Application of Delta dB should be applied as per Mascoat detailed hot application instructions.</p>
Application Thickness	Product can be applied in successive coats to increase sound dampening ability. There are no upper limits of total film thickness done in successive coats. Thickness >40 mils (1.0 mm) may cause slight mudcracking.
Forced Ventilation	Forced ventilation should be used to help coating dry and hang on vertical surfaces. Air movement should be both in/out during drying process.

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	680-760 psi	ASTM D-4541
Elongation Rate	Above 30%	ASTM D-638
Flame Developed	5	ASTM E-84
Smoke Developed	5	ASTM E-87

Mixing & Thinning

Mixing Only 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.

Thinning Thinning is normally not needed in most applications. Thinning should not exceed one quart per five gallon pail for high temperature applications. Please consult Mascoat for specific instructions, if thinning is desired. Thinning can also be used to help coating aesthetically.

Pot Life None, coating is one part. Pail can be reused if properly sealed.

Package, Handling & Storage

Container 5 gallon pail
(18.92 liters)

Container wet Weight with pail & lid 71.10-74.0 lbs per 5 gallon pail
(32.25-33.57 kg) per 20 liter pail

Net Contents 68.8-69.5 lbs
(31.21-31.52 kg)

Flash Point (Setaflash) None

Storage Product should be kept out of direct sunlight and stored in a climate controlled warehouse with temperatures ranging from 50°F to 110°F (10°C to 43°C).

Shelf Life One year shelf life from manufacture date

Caution Do not let product freeze.

Cleanup & Safety

Cleanup Equipment may be cleaned with soap and 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

Dry Time Chart vs. Humidity Wet Thickness 40 mils (1.0 mm)

Surface Temperature	% Humidity	Time Between Coats (hours)
50-60 °F (10-15°C)	10-30%	3.50
	31-50%	5.00
	51-70%	7.50
	>70%	9.00
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
101-110°F (38-43°C)	10-30%	0.40
	31-50%	0.50
	51-70%	0.60
	>70%	0.80
111-120°F (44-49°C)	10-30%	0.35
	31-50%	0.40
	51-70%	0.50
	>70%	0.60
121-130°F (50-54°C)	10-30%	0.35
	31-50%	0.40
	51-70%	0.50
	>70%	0.60

Use 90° thumb test or moisture meter prior to recoat. These are the estimated dry times for 40 mils (1.0 mm) of Delta dB 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.

Curing Schedule

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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