

Delta~dB
Sound Damping
Coating

Sound travels in two ways - one through structure and the other via airborne transmission. To decrease sound prior to airborne transmission it is very important to "kill" or damp structural noise vibration prior to its release to the airborne state.

Delta~dB is a sprayable, waterborne, non combustible sound damping coating for structural and mechanical noise generated through substrates and surfaces. *Delta~dB* has special materials which are encapsulated in a high grade acrylic based binder that provides structure noise damping across the various frequency ranges. *Delta~dB* turns structure noise energy into low grade heat offering an efficient means to "killing sound".

Delta~dB offers a very unique chemistry with well proven Dispersion 2™ technology. It gives the very best in sound damping abilities in an easily applied spray, brush or roll format. Its direct adhesion to the surface with its high grade resin system provides "no worries" adhesion. *Delta~dB* Sound Damping can be applied direct to aluminum, stainless, brass, fiberglass, etc without the need for a primer. It can be applied via airless, conventional, brush, roller or SA Gun setup to a thickness of 40 mils (1.0 mm) in a single application. Apply two coats for the most cost effective sound damping characteristics. More coats may be applied without any upper limitations. *Delta~dB* is a **no VOC** product and completely solvent free as it is water based. Cleanup is simple with soap and water.



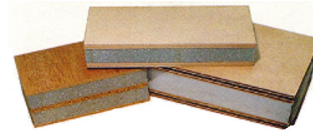
The coating has a low flame and smoke spread and is considered CLASS A fire rated with pending IMO A.653(16) Marine rating by ABS, DNV, Lloyd's and USCG. The materials and resin systems are all complimentary with Delta T Marine and are used as common practice together to give the ultimate in sound and thermal performance for modern craft.


Table 1: Relative damping improvement in dB

Approx Freq, Hz	Thickness, mils	Improvement, dB						Rank
		78	188	366	595	881	Avg	
DELTA DB + DELTA T MARINE	80	-0.8	10.2	11.8	11.7	12.9	11.6	1
DELTA DB 1	60	-7.3	9.3	11.5	10.7	11.6	10.8	2
DELTA DB 2	60	-4.6	8.0	10.4	9.7	10.6	9.7	3
DELTA DB 2	40	-1.9	4.0	5.8	5.3	5.7	5.2	4
DELTA DB 1	40	-2.9	3.5	4.1	4.5	7.2	4.8	5

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		Delta~dB Sound Dampening Coating		
Master Data <i>Delta~dB</i> Sound Dampening (Damping) Coating				
Item	English Value	Metric Value	Test Method	Notes
Coverage	50-60 ft ² @ 20 mils	1.47 m ² @ 0.5 mm	Internal	Actual
Container	5 gallon and 2 gallon	20 liters - 7.5 liters		US gallon pail
Thickness	0.020" = 20 mils	0.50 mm		Dry film thickness
Thickness	0.020"	508 microns		Thickness dry
Specific Gravity	1.6	1.6		Wet
Weight DFT	0.01 lbs/ft ² at 1 mil	48 g/m ² @ 25.4 microns	Internal	Weight dry
Component Parts	Inclusive	Inclusive		
Pot life	None, one part	None, one part		
Color	Dark Grey/Black	Dark Grey/Black		
Odor	Little to none wet	Little to none wet	Internal	
Shelf Life	One Year	One Year		From manufacture date
VOC Content	0.0 lbs/gallon	0.0 grams/liter	EPA method 24	
Weight	13.35 lbs/gal	1.60 kg/liter		Wet weight
Binding structure	Water, Acrylic emul	Water, Acrylic emul		
Boiling Point	Does not boil	Does not boil	Setaflash	Coating hardened
Weight non volatiles	84%	84%	ASTM D - 2369	Slight fluc. Due to air
Volume Solids	58-60%	58-60%	Internal	
Weight Solids	84%	84%	Internal	
Viscosity	4400 @ 30 rpm	4400 @ 30 rpm	Brookfield LVF	Approx.
Vapor Density	>1	>1	Calculated	
Evaporation Rate	<1	<1	Calculated	
pH	9.30	9.30	Calculated	
Aging study	Pending		ASTM B -117	No detrimental affects
Cyclic Salt Fog	Pending		ASTM D - 5894	No detrimental affects
QUV	Pending		ASTM G -154	No detrimental affects
Hardness	Good to excellent	Good to excellent		No detrimental affects
Application Temp.	50-250+°F	10-110°C	Internal	
Peak Load Temp.	350°F	176°C	Internal	
Cross Hatch Adhesion	100% 5 B	100% 5 B	ASTM D - 3359	
Pull apart strength	Pending		ASTM D - 4541	
Elongation Rate	Pending	Pending	ASTM D - 638	
Bend Rate	1/8" bend without tearing	30 mm bend w/out tearing	Internal	20 mil (0.5mm) thickness
Flame Spread	5	5	ASTM E - 84	
Smoke Developed	5	5	ASTM E - 87	
Approvals	USCG		Pending	
	ABS		Pending	
	DNV		Pending	
	ABS		Pending	

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