



Mascoat®

— SOUND CONTROL—dB —

dB

SOUND DAMPING COATING

A SPRAY-APPLIED SOUND CONTROL COATING FOR ALL PURPOSES

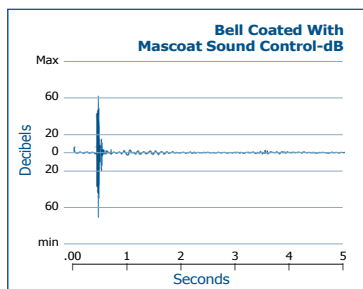
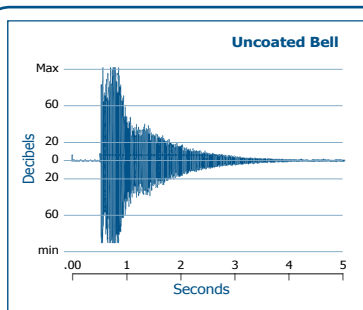


**WORKBOATS
YACHTS
COMMERCIAL VESSELS
INDUSTRIAL
TRANSPORTATION**

Mascoat Sound Control-dB is trusted by many types of marine, transportation and industrial companies worldwide, since it's engineered to lower noise prior to airborne release. The coating's technology minimizes loud vibration due to structural translation and mechanical output—which significantly increases safety and ensures vessel comfort for crew and passengers.

Whether you utilize Mascoat Sound Control-dB to dampen noise from pumps, engines, machine housing or ductwork, you can expect superior performance, durability and cost-effectiveness. Though it requires minimal application effort, the coating lasts for years without maintenance and reduces annual repair expenditures for Corrosion Under Insulation (CUI).

Most projects require only two coats for optimum sound damping, but the water-based formulation allows for safe, easy addition of multiple coats. And because it contains no toxic ingredients and is low in VOCs, Mascoat Sound Control-dB is safe for use in virtually any environment.



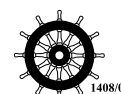
Above are two identical surfaces in a before and after study. The graphics depict the sound waves expressed in Decibels over time. The top graphic shows the uncoated surface versus the bottom graphic showing the surface coated with 40 mils (1.0 mm) of Mascoat Sound Control-dB.

USES

- Engine rooms
- Overheads
- Pilot houses
- Decks
- Crew and passenger quarters
- Vehicles
- Pumps
- Blowers
- Fan housing
- And much more...

BENEFITS

- Reduction of structure-borne noise and vibrations
- Saves installation time compared to sound damping tiles
- Reduce overall construction time-frame
- Excellent vapor barrier
- Keeps substrates viewable at all times
- Protect personnel
- Increase interior comfort
- No risk of water entrapment
- Lightweight compared to damping tiles
- Meets IMO/SOLAS guidelines
- Easily repairable if needed



Qualifies under IMO and SOLAS guidelines.



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How does the coating work? Sound transfer is based upon three factors: the source (where the sound originates), the path (the vehicle that transfers the sound) and the receiver (how we perceive the sound). To effectively control sound, it is essential to control at least one of these factors. In most cases, it is difficult to control the source and inconvenient to control the receiver. Therefore, controlling the path is the most viable option.

Mascoat Sound Control-dB incorporates special anti-vibrational fillers with a sound absorption resin. This unique formulation suppresses the vibrational movement of the sound path, in turn retarding sound/vibration transfer through the path. By controlling the vibration, less sound is transmitted through the surface.

Sound Damping Effects Using Coatings
Decrease in Decibels vs. Frequency

Frequency Hz	188	366	585	881	1000	3000	5000
60 mils Mascoat Sound Control-dB	9.3	11.5	10.7	11.6	10.8	10.9	11
40 mils Mascoat Sound Control-dB	4.0	5.8	5.3	5.7	5.7	5.7	5.8
Plain Panel (no coating)	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Explanation: The numbers at left show a **DECREASE** in decibels across the various frequencies of vibrational movement. The coatings demonstrate a very positive effect on damping of the surface. All tests were performed on like aluminum surfaces according to Loss Beam Factor Test performed at Noise Control Engineering, Inc.

Note: A plain aluminum panel that shows no damping or sound loss effects was used as the control for the test.

Typical Uses: Mascoat Sound Control-dB is an excellent lightweight material that can be applied to almost any surface to drastically reduce structure-borne noise. Easily applied to a vehicle or marine vessel, Mascoat Sound Control-dB dampens noises before they are released into the environment surrounding the surface. Because the coating stays flexible after curing, its adhesion to vibrating surfaces is significantly better than typical glue-on damping materials.

Other Applications: Mascoat Sound Control-dB can also be used on industrial and other equipment that produce high noise levels due to structural translation. The coating can be applied directly to most surfaces to lower noise prior to airborne release. Where noise level safety is concerned, Mascoat Sound Control-dB is a very cost-effective, low-effort solution.

Applying Mascoat Sound Control-dB: The coating can be applied via airless or conventional sprayer, brush or roller.

Surfaces: Mascoat Sound Control-dB can be applied directly to almost any surface. Carbon steel requires a primer. For a list of approved primers, please contact your Mascoat representative.

Application Rate: Mascoat Sound Control-dB can be applied to 20-24 mils wet film thickness. Thinner coats promote faster dry times. Typical application is 2-3 coats.

For a complete list of approvals, please call 800.549.0043.

TECHNICAL DATA

All data is to ASTM standards when applicable

CONTAINER SIZE: 5 Gallons (18.92 Liters)

COMPONENTS: One-part (inclusive)

COAT THICKNESS: 20 mils (0.5 mm) dry

COVERAGE PER GALLON: 40–45 ft² at 20 mils DFT
(1.0 m² at 0.5 mm)

WEIGHT WET: 13.9–14.1 lbs/gallon
(1.7 kg/liter)

WEIGHT DRY: 0.13 lbs/ft² @ 20 mils
(0.64 kg/m² @ 0.5 mm)

VOC CONTENT: 0.29 lbs/gallon
(34.7 g/liter)

VOLUME SOLIDS: 73–75%

COLOR: White, grey, black.
Custom tinting upon request.

SHEEN: Flat

BASE: Water-based acrylic sound damping coating

CHLORIDES: Low to none

ELONGATION: Above 30%

ADHESION: 100% 5B

PERMS: 0.86

ACCELERATED AGING: Excellent (2,000+ hours)

ABRASION RESISTANCE: Moderate to high

FLAME SPREAD: Class A

SMOKE DEVELOPED: Class A

FIRE RATING: IMO A653 (16) approved

IMO/SOLAS: Compliant

APPLICATION TEMPS: 50–300°F
(10–150°C)

RECOAT: 30–120 Minutes

TOPCOATING: Please contact Mascoat

APPLICATION METHOD: Airless sprayer