



Mascoat®

SOUND CONTROL-dB4

dB4

SOUND DAMPING COATING – V4

NEW AND IMPROVED SOUND CONTROL COATING TO DECREASE VIBRATION AND NOISE



Mascoat Sound Control-dB has been trusted by all types of marine, transportation, and industrial companies worldwide since 1995 to provide effective, long-lasting vibration and noise reduction in a coating form. In early 2021, Mascoat released the latest version in 2021, MSC-dB4, building on that trust with drastically improved sound damping characteristics, especially under 300 Hz, and higher application film builds. This results in better performance and quicker application times.

The coating's revolutionary technology minimizes loud vibration due to structural translation and mechanical output – which significantly increases safety and ensures vessel comfort for crew and passengers. Typical total application thicknesses ranges from 40–160 mils (1–4 mm), depending on the application and customer requirements.

Whether you utilize Mascoat Sound Control-dB4 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).

The new and improved water-based formulation allows for safe, easy addition of multiple coats depending on the scope of the project. And because it contains no toxic ingredients and is low in VOCs, Mascoat Sound Control-dB4 is safe for use in virtually any environment.

VERSION 4 IMPROVEMENTS

- Can be applied to 40-50 mils (1.0-1.25 mm) wet in one coat
- Offers best damping-to-thickness ratio of any sound damping coating in the market
- Enhanced damping versus previous formulation, especially in the 0-300Hz range

USES

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

BENEFITS

- Increased reduction of structure-borne noise and vibrations
- Saves installation time compared to sound damping tiles
- Reduce overall construction time-frame
- Increase interior comfort
- 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-dB4 incorporates special anti-vibrational fillers with a unique sound damping resin to provide superior sound control in a coating form. 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 Control-dB4 Performance Specs

Substrate Material	Thickness Ratio (mm)	Octave-Band Center Frequency, Hz								
		31.5	63	125	250	500	1000	2000	4000	8000
Aluminum	2.0	11	12	13	14	14	14	13	13	13
	1.5	10	11	12	13	13	13	13	13	13
	1.0	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	2.0	12	14	15	15	15	15	15	15	15
	1.5	10	12	14	14	14	14	14	14	14
	1.0	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

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.

Thinning: Do not thin unless authorized in writing by Mascoat.

Applying Mascoat Sound Control-dB4: The coating can be applied via airless or conventional sprayer. Contact your Mascoat representative for full application instructions.

Surfaces: Mascoat Sound Control-dB4 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-dB4 can be applied up to 40-50 mils (1.0-1.25 mm) wet film thickness per coat, depending on weather conditions. Thinner coats promote faster dry times. For more information, please contact your Mascoat representative.

For a complete list of approvals, please call 800.549.0043.

All information listed on this sheet is ©Mascoat.

TECHNICAL DATA

All data is to ASTM standards when applicable

CONTAINER SIZE: 5 Gallons (18.92 Liters)

COMPONENTS: One-part (inclusive)

COAT THICKNESS: 40-50 mils WFT
(1.0-1.25mm) WFT

COVERAGE PER GALLON: 20-25 ft² at 40 mils DFT
(COVERAGE PER LITER): (1.0 m² at 1.0 mm) DFT

WEIGHT WET: 12.75 lbs/gallon
(1.53 kg/liter)

WEIGHT DRY: 0.38-0.4 lbs/ft² @ 40 mils
(1.9-2.0 kg/m² @ 1.0 mm)

VOC CONTENT: 0.26 lbs/gallon
(31.3 g/liter)

VOLUME SOLIDS: 65-68%

SHEEN: Flat

BASE: Water-based acrylic
Sound Damping Coating

CHLORIDES: Low to none

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