

Technical Data Sheet

VB-1X is a smooth, air curing, sprayable vibration damping coating that has been engineered to convert vibration energy into low level heat through viscous friction. It will effectively damp vibration in a variety of substrates over a wide frequency range (10Hz – 40kHz). This unique combination of silica-mica, ceramics and an advanced chemical binder greatly reduces structural resonance. **VB-1X** bonds well to sheetmetal, wood, plastic and fiberglass surfaces and may be applied with Cascade Audio Engineering's SG-1 spray gun. A unique characteristic of **VB-1X** is its ability to colorshift from purple when wet to black as it cures.



Automotive body panels constructed of sheetmetal, fiberglass or plastic vibrate at various frequencies. If they vibrate at a high rate, noise can be heard throughout the passenger compartment and contribute to driver fatigue. This type of noise can also negatively affect the performance of auto sound system. **VB-1X** will reduce vibration of the body panels by increasing their "mass" and converting the vibration energy (mechanical) into thermal energy. The installation of **VB-1X** will assist in reducing interior noise levels as well as improving performance from auto sound systems by preventing the conversion of sound energy into vibration energy.

VB-1X is an important member of a specialized family of high performance damping products engineered to work together. Consulting with a Cascade Audio Engineering specialist will allow you to select and combine these products to transform your personal space into the ultimate listening environment.

Benefits:

- Easy spray on application
- Treat large surface areas quickly
- Outperforms competitive products
- Lightweight alternative to heavy asphalt products
- Economical
- Waterproof
- Makes your audio system sound better!

Applications:

- Automotive body panels
- Coat interior surfaces of loudspeaker enclosures to increase output
- Metal and wood wall structures
- Marine: Hull and bulkhead
- Sheet metal ducting, chutes and hoppers
- Air compressors and machine tool housings

Properties:

Container: VB-1X (1G)	1 US Gallon
Container: VB-1X (5G)	5 US Gallons
Effective temp range:	32°F – 175°F
Color (wet / dry):	purple / black
Viscosity (Brookfield RV, spindle #5 @ 10RPM):	9,000 CPS
Weight:	12.9 lbs. per gallon
Non-volatile content by weight:	75%
Non-volatile content by volume:	62%
Specific Gravity:	1.54
V.O.C. (EPA Method #24, minus water, calculated)	0 lbs. per gallon
Coverage:	30 ft ² per gallon
Cured Appearance:	Black, stippled finish