
**PRODUCT
INFORMATION****V-DAMP® 3680****Vibration Damping Material**

V-Damp® 3680 is highly effective in reducing vibrational resonance conditions in structures such as sheet metal panels, floor housings, stainless sinks, and a multitude of other applications. V-Damp® 3680 will dissipate structure-borne vibrational energy and reduces radiated air-borne noise.

It is non-toxic, non-flammable, odorless and exhibits exceptional aging characteristics.

V-DAMP® 3680

Waterbased and non-toxic, V-Damp® 3680 offers an efficient and effective alternative to solvent-based sprayable damping products. Available in 55-gallon drums and 5-gallon pails, V-Damp® 3680 can be sprayed or troweled directly from the drum without thinning. During application V-Damp® 3680 cleans up with water.

A typical setup to spray V-Damp® 3680 consists of a 30:1 airless pump, a reverse-a-clean airless gun with a tip size of 0.035", a ram and a surge suppressor.

V-Damp® 3680 exhibits exceptional adhesion to a variety of materials when applied over properly prepared surfaces. V-Damp® 3680 will air dry within 4 to 8 hours at room temperature depending on film builds. The drying time can be accelerated through air movement or oven drying using moderate temperatures.

V-Damp® 3680 passes the following tests:

1. Sound Damping Properties per Geiger Thick Plate Test Method. It has a 46.1 decibels per second rating, at 0.5 lbs., (70 °F) dry per square foot.

Sound Damping Properties per Oberst Bar Test Method SAE J-1637. Composite Loss Factor of 0.07 at 200 Hz and 77 °F, V-Damp® to metal ratio of 1:1 (V-Damp® at 32 mils and steel bar at 32 mils).
2. Cold adhesion – when V-Damp® 3680 is applied to a 10" x 10" x 0.035" panel of primed cold rolled steel at the rate of 0.5 lbs./sq. ft. (dry weight), shows no loss of adhesion when subjected to two 25 inch-lb. impacts from a two inch diameter, 1 ¼ lb., steel ball at -20 °F.
3. Fire Retardant – ASTM E-162 "Surface Flammability of Materials Using a Radiant Panel Heat Energy Source." Test results available upon request.
4. National Bureau of Standards and NFPA 258. Flaming and smoldering tests were conducted in an Aminco NBS Smoke Density Chamber, Cat. No. 4-5800. Test results available on request.

APPLICATION

Surface must be clean and free of oil and all foreign matter. Adhesion is very good on stainless steel, bonderized steel, primed steel, wash-primed galvanized sheet metal, and wash-primed aluminum. Daubert Chemical recommends that if the application requires corrosion protection, that a corrosion preventive primer for the substrate to be protected be used. V-Damp® 3680 can be top-coated with any high quality latex paint.

Conventional or airless spray mastic type equipment can be used.

Conventional Spray – Use a round ¼” spray tip, ¾” i.d. material hose, a Graco Mastic type pump 8:1 or 10:1 ratio or equivalent.

Airless Spray - 0.043” – 0.051” spray tip, ¾” i.d. material hose, a Graco Hydra-Mastic Pump 30:1 ratio or greater.

DRYING TIME

1/32” (32 mils) wet film at room temperature dries hard in 3-4 hours.

9/64” (140 mils) wet film at room temperature dries hard in 12 hours.

Heavier film greater than 140 mils should be applied in two coats

Where faster drying time is required, use forced ventilation, heat or infra-red light. Keep artificial heat below 200 °F to avoid blisters.

THINNING Product is ready for use as received. If conditions should require thinning, use water sparingly.

CLEANUP Spray equipment may be flushed with water after use.

PHYSICAL PROPERTIES (TYPICAL)

Color	Light Tan
Viscosity	Sprayable Mastic Consistency
Solids by Weight	55%
Solids by Volume	40.8%
Weight/Gallon	10.95
Flash Point	None
VOC (EPA Method #24)	0 lbs./gal. (water-based coating)
Non-Bleeding	Non-Asphaltic
Odor After Drying	None
Latex Emulsion	Protect From Freezing

Note: V-Damp® 3680 is not intended for direct outdoor weathering. The weathering resistance of V-Damp® 3680 can be improved by painting with high quality latex house paint. CONSULT MSDS BEFORE USE.

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