

Valvoline Performance Products – Tectyl

Version: TE063/01

V-Damp[®] 3680

Premium water based, non-toxic, vibration reducing compound.

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, and odorless and exhibits exceptional aging characteristics.

Waterbased and non-toxic, V-Damp[®] 3680 offers an efficient and effective alternative to solvent-based sprayable damping products. Available in 200 L drums and 20 L 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 50:1 airless pump, a reverse-a-clean airless gun with a tip size of 0.035", a ram with following plate 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.

Approvals/Performance levels

Tectyl V-Damp 3680

1. **Sound Damping Properties per Geiger Thick Plate Test Method.** It has a 46.1 decibels per second rating, at 0.5 lbs.(0.23kg), (70 °F;21°C) 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 (25°C), V-Damp[®] to metal ratio of 1:1 (V-Damp[®] at 32 mils and steel bar at 32 mils) (0.8mm).

2. **Cold adhesion** – when V-Damp[®] 3680 is applied to a 10" (25,4cm) x 10" (25,4cm) x 0.035" (0.1cm) panel of primed cold rolled steel at the rate of 0.5 lbs./sq. ft. (0.021kg/m²)(dry weight), shows no loss of adhesion when subjected to two 25 inch-lb. (63.5cm-kg)impacts from a two inch diameter, 1 ¼ lb.(0.57kg), steel ball at -20 °F (-29°C).

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 Preparation:

The maximum performance of **V-Damp[®] 3680** can be achieved only when the metal surfaces to be protected are clean, dry and free of rust, oil and mill scale.

Application:

Valvoline 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.

Airless Spray - 0.031" – 0.041" spray tip, ¾" i.d. material hose, a Graco Hydra-Mastic Pump 50:1 ratio or greater.

Cleanup

Spray equipment may be flushed with water after use.

Health and Safety

For the health and safety related properties of this product reference is made to the Safety Data Sheet (SDS). A Safety Data Sheet is available on request via your local sales office or via the internet @ <http://msds.ashland.com>

Protect the Environment

Do not discharge into drains, soil or water.

Storage

V-Damp® 3680 should be stored at temperatures between 10-35 °C. Mild agitation is recommended prior to use. Do not freeze!

Due to its composition V-Damp® 3680 can be subject to postproduction viscosity changes during storage. Under proper storage conditions V-Damp® 3680 can have a shelf life of 12 months.

Typical Properties

Typical property characteristics are based on current production. Whilst future production will conform to Tectyl specifications, variations in these characteristics may occur.

V-Damp® 3680	
Flash Point, PMCC [°C]	Not applicable
Viscosity	Sprayable mastic consistency
Color	Light tan
Non Volatile [volume %]	40,8
Non Volatile [weight %]	55
Non bleeding	Non asphaltic
Smell after drying	none
Volatile Organic Content EPA Method 24 [g/ltr]	0

This information only applies to products manufactured in the following location(s): US

Trusted since 1930

Since 1930, Tectyl™ protective coatings have been extending the operational life of cars, trucks, buses and other vehicles and equipment.

The Tectyl name is synonymous with quality coatings that are easy to apply, long-lasting and easy to remove when no longer required.

For more information on Tectyl products, programs and services please visit www.tectyl-europe.com

Caution

Adequate ventilation is required for cure and to ensure against formation of combustible liquid. THE PARTIALLY CURED FILM SHOULD NOT BE EXPOSED TO IGNITION SOURCES SUCH AS FLARES, FLAMES, SPARKS, EXCESSIVE HEAT OR TORCHES. Refer to the Safety Data Sheet for additional handling and first aid information.

Note

The addition of any product over or under this coating is not recommended. The use of additional coatings could result in chemical incompatibility, thus affecting the performance of this coating as stated in the Typical Properties section. When applied on top or under another layer, please test prior to use on a small surface.

Author:

RdB, September 2015

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