

Vibration Damping Compound

Description

Vibration Damping Compound is a water based co-polymer emulsion, with mineral fillers dispersed in a low permeable, polymeric binder. It is solvent free, easy to apply and can be used in most interior and semi-exposed areas.

It is designed to reduce noise by damping resonant vibration caused by continuous or impulsive excitation of the substrate to which it is applied.

Vibration Damping Compound can be sprayed onto smooth and irregular surfaces. Once applied, it has a monolithic spray texture finish.



Colour - Off-White

Applications

Vibration Damping Compound is designed for use in areas where a continuous membrane is required to damp noise and vibration from GRP, steel, aluminium and other non ferrous metals. It is used extensively on large surface areas e.g. floors and bodysides of railway carriages, air conditioning equipment, contoured metal, GRP and other substrate surfaces. Vibration Damping Compound is also ideal as a rain screen cladding.

Surface and Air Temperature

Vibration Damping Compound is suitable for use on substrates when the air and surface temperature is rising between 2°C and 45°C and when the air and surface temperature is at least 2°C above dewpoint.

Fire Performance

Vibration Damping Compound complies with the Class 'O' requirements of the Building Regulations, when tested to BS476: Part 6: 1981 and Part 7: 1987

It has also been tested to BS 6853 UK railway standards and has an M1 Classification in accordance with French regulation Arrete 28.09.1991

Vibration Damping Compound is water based so does not have a Flash Point and has very low smoke and toxicity levels.

Acoustic Performance

Vibration Damping Between 70 and 80 Hz

Substrate	Thickness of Damping Coat	Vibration Decay Rate (dB/Sec)
1mm Steel	Uncoated steel	3
	1.5mm when dry	115
	3mm when dry	224
3mm Aluminium	Uncoated aluminium	11
	1.5mm when dry	104
	3mm when dry	555

Data Sheet
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Crown Business Park
Old Dalby
Melton Mowbray
Leicestershire
LE14 3NQ
Tel: 01664 821810
Fax: 01664 821820

E-mail:
info@hodgsongroup.co.uk

Web Site:
<http://www.acoustic.co.uk>

Dimensions and Density

Wet Coat Thickness	Dry Coat Thickness	Weight per Litre	Drum Size Litres	Ordering Reference
3mm to 6mm	1.5mm to 3mm	1.5-1.6 kg	20	DC-LST

Practical Coverage

Typically, 1 litre of wet compound will cover approximately 0.5m² when applied at 3mm wet finish thickness.

Chemical Resistance

Vibration Damping Compound is mildly alkaline with a pH between 7 and 9.

Storage

Vibration Damping Compound should be kept in its airtight container until ready for use. All containers are marked with a batch number and the lower numbers should be used first. Protect from frost and excessive heat. Avoid exposure to radiant sunlight. Store at temperatures between 4°C and 45°C. Use within six months of purchase.

Method of Application

- 1 Vibration Damping Compound can be applied to primed, galvanised and stainless steel, aluminium and vitreous enamel surfaces. It should not be applied to bare steel as corrosion will occur.
- 2 It can be applied inside buildings and most adequately weather protected exterior areas providing it is protected from rain, hail and cold winds during application.
- 3 Inspect substrate prior to application and remove all loose material, flaking paint, rust, oil, grease and any other material likely to impair adhesion.
- 4 Ensure the surfaces to be treated are clean and dry and mask any surrounding areas to protect from overspray.
- 5 Stir Vibration Damping Compound thoroughly before use - do not remove excess liquid floating on top of the drum or thin with additives.
- 6 Apply over large areas using industrial heavy material spray equipment, available from Hodgson & Hodgson Group Ltd or by trowel over small areas.
- 7 Spray or trowel on the first coat up to 3mm wet thickness and build up further coats until the required finished thickness is achieved..
- 8 Allow each coat to dry completely before applying the next. Repair any damage by spraying or troweling over the affected area.



For Further Information

contact
Hodgson & Hodgson
Group Ltd

Crown Business Park
Old Dalby
Melton Mowbray
Leicestershire
LE14 3NQ
Tel: 01664 821810
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Safety Precautions

- 1 Ensure the area where Vibration Damping Compound is being applied is well ventilated both during and after the application.
- 2 It is recommended that gloves, goggles, face mask and barrier cream is worn during application. Avoid contact with skin and eyes and the inhalation of spray mist.
- 3 Do not smoke, eat or drink whilst applying the material.
- 4 If it comes into contact with the skin, wash with lukewarm water and soap or a propriety hand cleaner.
- 5 If it comes into contact with the eyes, wash with plenty of clean water and seek medical attention if irritation persists.
- 6 If swallowed, rinse mouth and throat with water. Drink plenty of water to dilute stomach contents and seek medical assistance.
- 7 If a spillage occurs, cover with an absorbent material e.g. dry sand, and dispose of it taking care not to contaminate water courses, sewers or soil.