



## Technical Data Sheet

# Boscodamp WB100

## Water Based Vibration Damping Compound

### Description

BOSCODAMP® WB100 is water based, high solids, fast curing, vibration damping compound. It is distinguished by the broad temperature range over which its exceptional vibration damping performance properties are effective. These damping properties are complemented by ease of use, environmental friendliness and low combustibility. This unique product offers an outstanding blend of performance and economy not found in other competing products.

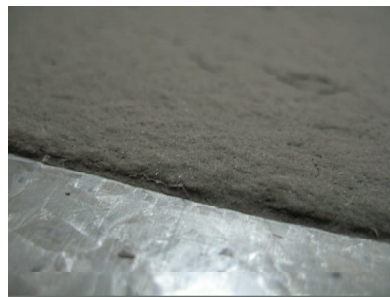
BOSCODAMP® WB100 is supplied as a versatile non-sag paste designed for trowel, brush, roller and texture coat spray applications.

Cured films of BOSCODAMP® WB100 are UV resistant, water resistant and chip resistant allowing their use in areas subject to low grade mechanical abuse.

Design specifically for adhesion to metals, with extremely high adhesion to mild steel, galvanized steel, stainless steel and aluminium.

Unlike many damping materials, BOSCODAMP® WB100 is effective at low add-on weights, allowing it to be used in weight sensitive applications. eg. Marine and Automotive/Transport applications.

Vibration is absorbed by combining viscous, (energy dissipation) and elastic, (energy storage) characteristics. Vibration energy is absorbed within the material and converted to heat.



### Features

- Broad temperature and frequency range
- Non toxic
- High water resistance
- Environmentally friendly
- Non-sag formulation
- Excellent adhesion to metal surfaces
- Hard chip resistant finish
- UV resistant
- Sprayable (texture coat or airless equipment)
- Fast drying
- Paintable
- Colour - Grey

### Benefits

- Eliminates panel drumming, tinniness and ringing
- Increases panel noise transmission loss
- Water based, easy application and clean up
- Performs under most ambient conditions
- Minimum weight for maximum performance
- Ideal for weight sensitive applications
- Excellent flame resistance

### Application

Apply BOSCODAMP WB100 at temperatures above 5°C

May be applied by texture coating equipment, Airless spray (> 45:1 & 0.035" tip) or brush  
*Separate application guide is available on request.*

### Surface Preparation

Surfaces must be clean, dry and free from oil, dust and other foreign materials

### Recommended Uses

- Train Carriage
- Metal Deck Roof and Metal Wall cladding
- Machinery and Equipment enclosures
- Automotive panels and wheel arches
- Truck or bus underbodies,
- Boat hulls, ceilings, decks and bulkheads
- Machinery guards
- Stainless steel fabrications e.g. sinks, bowls
- Hospital equipment
- Heavy earthmoving equipment

### Limitations – do not use in:

- acid/base corrosive environments
- oily environments – engine oil or fuel. Note: An appropriate surface coating can protect it from these environments.
- continuous water immersion



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### General Properties

<b>Colour:</b>	Grey
<b>Specific gravity:</b>	1.7 wet / 2.1 dry
<b>Service Temp Range:</b>	-10 <sup>0</sup> C to +80 <sup>0</sup> C

### Fire Properties

Compliant to BS 6853 (1999) Category 2

Test Method	Result (Test report available upon request)
BS 476: Part 7 (1997) – Surface Spread of Flame	Class 1
BS 6853 (1999) Annex D.8.4 – Smoke Density	A <sub>0</sub> (ON) = 5.14, A <sub>0</sub> (OFF) = 5.55
BS 6853 (1999) Annex B2 – Smoke Toxicity	R value = 0.31
NFX 70-100 – Smoke Toxicity	C.I.T = 1.09, R value = 0.11
DIN 5510-2:2009-05 / DIN EN ISO 5659-2: 2007 Smoke Toxicity	CIT, 4min = 0.0546 CIT, 8min = 0.113 FED(t <sub>zul</sub> =30min) = 0.098 FED(t <sub>zul</sub> =15min) = ≤ 0.041
AS/NZS 3837 : 1998 Cone Calorimeter	BCA Class 1

### Coating Thickness Guide (Dry Film)

Substrate	Impact Excitation	Steady Vibration
Aluminium	≥ 0.5 x T	≥ 0.7 x T
Steel	≥ 0.7 x T	≥ 1.4 x T
Plastic	≥ 0.3 x T	≥ 0.5 x T

#### Note:

1. T = Substrate Thickness.
2. Maximum 3mm wet film per coat. Allow each coat to dry before the next application.
3. Drying time at 20°C for 3 mm thickness coating is approximately 18 hours.

### Calculating Dry Film Thickness based on Wet Film Thickness

Data: Volume Solids Content = 66% v/v

DRY FILM THICKNESS = wet film thickness x volume solids content

### Calculating Wet Film Thickness based on Dry Area Mass

Data: Weight Solids Content = 80% w/w, Volume Solids Content = 66% v/v, Wet SG = 1.7, Dry SG = 2.1

WET FILM THICKNESS = [weight per m<sup>2</sup> / (%w/w solids content / 100)] / wet SG

Alternatively, calculation based on volumes:

WET FILM THICKNESS = (dry weight per m<sup>2</sup> / dry SG) / (volume solids / 100)



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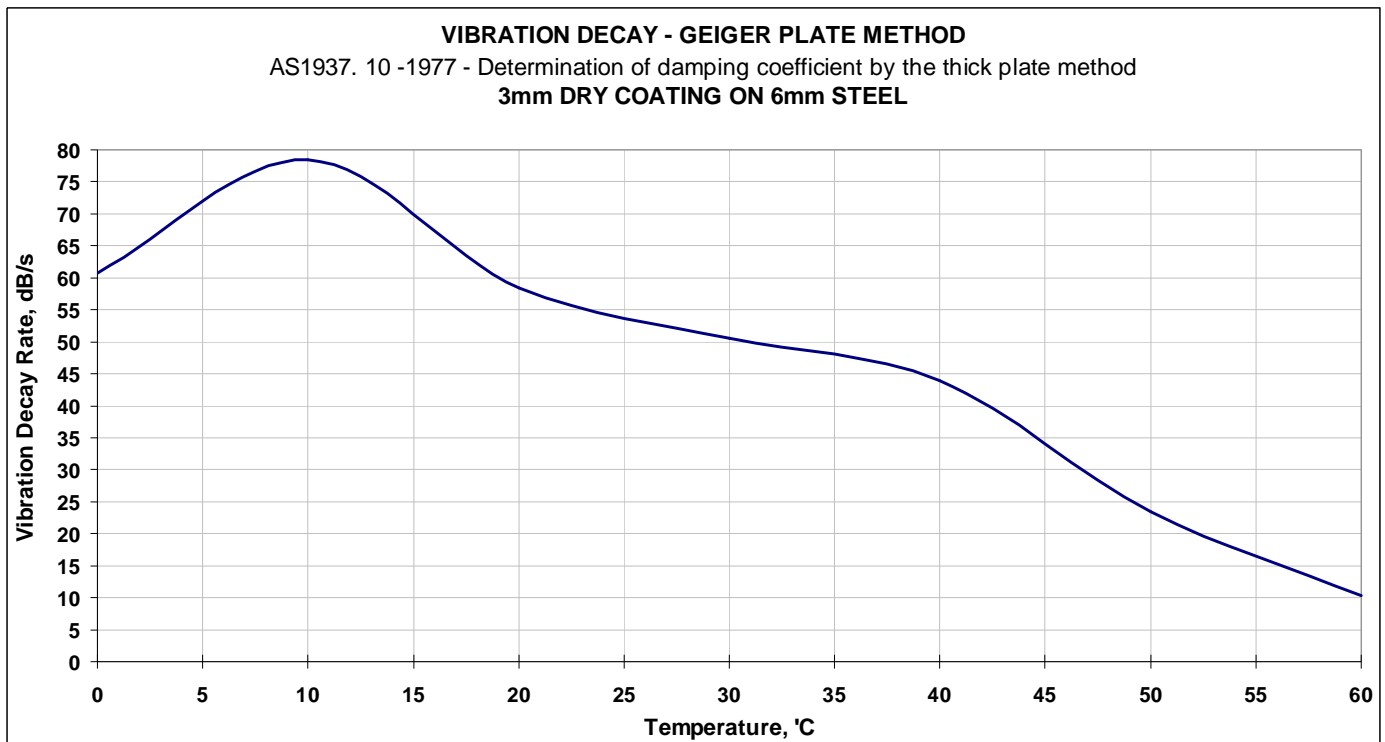
### VIBRATION DAMPING PERFORMANCE

#### LOSS FACTOR:

Loss factor according to DIN 53-440: 0.092 (20°C, 200 Hz, 1 mm dry film thickness)

#### DECAY RATE: Vibration decay of coated plate steel, 'Geiger Plate'

Note: An uncoated Geiger Plate has a natural decay of 3dB/s. Inducing resonance of the Geiger plate has the effect of gonging a bell.



BOSCODAMP WB100 performs well as a vibration damping material across a broad temperature range -10 to +60°C. Some competitive materials operate well in the lower temperature range up to +25 to +30°C, due to the focus of application being the Marine Market, where elevated temperature performance above 30°C is not especially important. At higher temperatures +30 to +60°C these products often have little damping performance. It is the excellent damping performance over this extended temperature range that separates BOSCODAMP WB100 from other water based damping materials.



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### Storage & Shelf Life

Store out of direct sunlight. For maximum shelf life store between 5°C and 30°C. 1 year shelf life minimum  
DO NOT ALLOW TO FREEZE, otherwise the product will gel.

### Health & Safety

Please refer to the Material Safety Data Sheet which is available on request.

### Clean Up

Use warm or hot water to clean up before Boscodamp WB100 has fully cured.

Once dry, the cured coating can be removed with a heat gun and scraper. The surface residue may be cleaned away with Anchor-Weld™ 901 Cleaner/Thinner.

### Product Details

Item Number	Standard Pack Size	Colour	Weight
364053	15 litres	Grey	20kg
365998	200 litres	Grey	300kg

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