

## DECIDAMP® SP500

### water based vibration damping compound for premium applications

Decidamp® is a fast drying, water based viscoelastic vibration damping compound.

Optimised to suit transport and industrial applications, the advanced formula was developed for acoustic improvement of structures that are exposed to vibration and impact sound.

Decidamp damping compound is a lightweight, non-hazardous structural damping material that is suitable for exterior and interior use with easy application by simply spraying, rolling or trowelling onto surfaces. Once dry, the cured film is UV, water and chip resistant and exhibits low combustibility, it effectively absorbs and dissipates vibrational energy from the flexural stress of the base structure and reduces panel coincidence dip and resonance effects.

A superior extensional damping compound, it is suitable for applications to structures (fibreglass, aluminium, and steel, including stainless steel) where sound damping is required. Compliance to the latest international fire rail regulations, such as EN45545, makes it the ideal choice for premium transport applications.

#### SPECIFICATIONS

Colour	Grey standard, other colours available based on minimum quantities
Packaging	20 kg pail
	220 kg drum



### applications

- Rail: carriages, body panels, locomotive, cabin walls and roofing, shells and flooring.
- Machinery or industrial enclosures
- HVAC applications, plant rooms, substations
- Automotive
- Exit ways, smoking areas, stairwells
- Road barriers, exterior plant fence
- Metal floors, deck roofing, wall cladding

### features

- Compliance to EN45545
- Advanced, non-sag formulation
- Excellent adhesion to fibreglass, aluminium, and steel - including stainless steel
- Water based
- Reduces vibrational structural wear/tear
- Suitable for outdoor exposure
- Excellent flame resistance, ignition retardant
- Broad temperature and frequency range
- Ideal for weight sensitive applications - lightweight
- High chip resistance



## PRODUCT SPECIFICATIONS

Colour	UOM (kg)	Density (dry)	Service temp range (max short term)	pH	Chemical resistance				Coating thickness (dry film)		
GREY (STANDARD)	20 kg PAIL	1.3 g/cm <sup>3</sup>	-40° to 120° (Report No. 29513AR)	8	UV excellent	water very good	petrol good	diesel good	steel ≥ 1.0 x T	aluminium ≥ 0.5 x T	FRP ≥ 0.3 x T
	220 kg DRUM										

Note

1. T= Substrate Thickness.

2. Can be applied up to 6 mm wet film per coating session without slumping. Typically, Decidamp is built up over two sessions of 3 mm wet coats allowing 20-40 minutes between each application.

3. Typically, a 3 mm thickness coating dries within 3-4 hours and a 6 mm thickness coating dries within 24 hours, at 35°C and relative humidity of 55%. For best results, allow the compound to dry naturally as force drying may result in cracking of coat. Decidamp will fully cure within 2-3 days. In humid environments, Decidamp will take longer to cure. In environments greater than 70% humidity, the application rate and curing time will vary.

4. Decidamp SP500 and substrate temperatures need to be greater than 10°C during application.

5. To achieve a desired dry film thickness, provision for material shrinkage of up to 15% on average should be included when applying wet coating.

Storage: Store between 10°C - 45°C

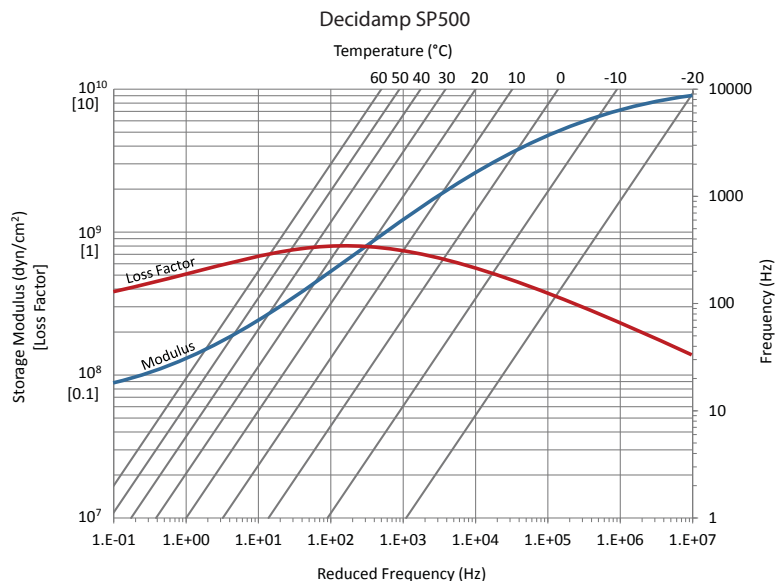
Shelf Life: 24 months from receiving goods (stored under recommended conditions).

## MATERIAL PROPERTIES

Test Method	Property	Report No.	Results
Brookfield T-D spindle 1RPM	Viscosity	-	200x10 <sup>3</sup> - 350x10 <sup>3</sup> cP
EN 45545-2 (ISO 5658-2)	Spread of flame	362501	<b>R1, R7, R8 HL3</b> (Complies for most interior surfaces and cavities in railway vehicles of operation categories 1, 2 & 3)
EN 45545-2 (ISO 5660-1 : 50kWm <sup>-2</sup> )	Heat release rate by cone calorimeter	360850	
EN 45545-2 (ISO 5659-2 : 50kWm <sup>-2</sup> )	Smoke generation (optical density)	360852	
EN 45545-2 (ISO9239-1)	Reaction to fire tests for flooring	043/17	<b>R10, HL3*</b> (Complies for flooring surfaces in Railway vehicles of operation categories 1, 2 & 3)
EN 45545 (ISO 5659-2 : 25kWm <sup>-2</sup> )	Spread of flame		
EN 45545 (ISO 5660-1 : 25kWm <sup>-2</sup> )	Smoke generation (optical density)		
ASTM D3170	Chipping resistance of coating	RES 154479-01	10A

\*Material tested on 15 mm thick PIR board

## ACOUSTIC PERFORMANCE



Tested to ISO 6721-5:1996  
Report Number:12716AR4

### How to read a reduced frequency nomogram:

1. Start by selecting the frequency (Hz) on the right-hand vertical axis.
2. Follow this value horizontally to the left to where the diagonal temperature isotherm intersects.
3. Draw a vertical line through the frequency and isotherm intersection, find the point where this line intersects the modulus and loss factor curves.
4. Draw horizontal lines from these points to the left-hand vertical axis to read the values.

For further information and contact details, please visit our website [pyroteknc.com](http://pyroteknc.com)

Caveats: Specifications are subject to change without notice. The data in this document is typical of average values based on tests by independent laboratories or by the manufacturer and are indicative only. Materials must be tested under intended service conditions to determine their suitability for purpose. The conclusions drawn from acoustic test results are as interpreted by qualified independent testing authorities. Nothing here releases the purchaser/user from responsibility to determine the suitability of the product for their project needs. Always seek the opinion of your acoustic, mechanical and fire engineer on data presented by the manufacturer. Due to the wide variety of individual projects, Pyrotek is not responsible for differing outcomes from using their products. Pyrotek disclaims any liability for damages or consequential loss as a result of reliance solely on the information presented. No warranty is made that the use of this information or of the products, processes or equipment to which this Information Page refers will not infringe any third party's patents or rights. DISCLAIMER: This document is covered by Pyrotek standard Disclaimer, Warranty and © Copyright clauses. See [pyroteknc.com/disclaimer](http://pyroteknc.com/disclaimer).

