

DECIDAMP® SP80

water-based vibration damping compound

Decidamp® SP80 is a fast drying, water-based viscoelastic vibration damping compound.

The advanced formula is optimised to suit building applications providing an acoustic improvement of structures that are exposed to vibrations and impact noise.

Developed with a special polymer technology, Decidamp® SP80 is a lightweight, non-toxic damping material that is suitable for exterior and interior use. It can be applied almost anywhere that vibration can impact structural longevity, comfort and function.

With exceptional fire properties and compliance to international fire codes, it performs across several industries and is now developed for building applications. Decidamp® SP80 is easy to apply by simply spraying, rolling or trowelling onto surfaces. Once dry, the cured film is UV, water and chip resistant and effectively damps vibration.

Decidamp® SP80 is a superior extensional damping compound and is suitable to be applied directly to structures (steel, fibreglass and alloys) where vibration damping is required.



applications

- Metal roofing, floors and wall cladding
- Enclosures for machinery and industrial equipment
- HVAC, plant rooms and substations
- Stainless steel applications (sinks, bowls)
- Hospital equipment
- Whitegoods and dishwashers
- Back of house, garbage chutes, and utilities
- LNG pipe

features

- Advanced, non-sag formulation
- Excellent adhesion to most surfaces
- Water-based, non-toxic, solvent-free, and low VOC
- Excellent flame resistance, ignition retardant
- Designed for damping across broad temperature and frequency range
- Reduces resonant vibration and eliminates tinniness and ringing
- Easy application and clean up (sprayable)
- Can be painted/gel coated over once cured
- Cures to a chip-resistant finish
- Fast drying formula

SPECIFICATIONS

Colour	Grey (standard colour) Other colours available depending on MOQ
Available	Pail: 20 kg, 5 gal
	Drum: 300 kg, 55 gal



PRODUCT SPECIFICATIONS

Colour	UOM	Weight	Service temp range (max short term)	pH	Chemical resistance			
Grey (Standard)	20 kg Pail	1.8 kg/m ² /mm DFT	-40 °C to 120 °C (-40 °F to 248 °F)	8	UV excellent	water very good	petrol good	diesel good
	5 gal Pail							
	300 kg (55 gal) Drum							

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

When coating thickness requirement is not specified, general recommended coating thickness (dry film) is $\geq 1.0 \times T$ for steel, $\geq 0.5 \times T$ for aluminium, $\geq 0.3 \times T$ for FRP, where T = substrate thickness.

Other thicknesses may be installed to achieve desired damping performance.

Storage: Store between 10 °C to 45 °C (50 °F to 113 °F). Do not freeze.

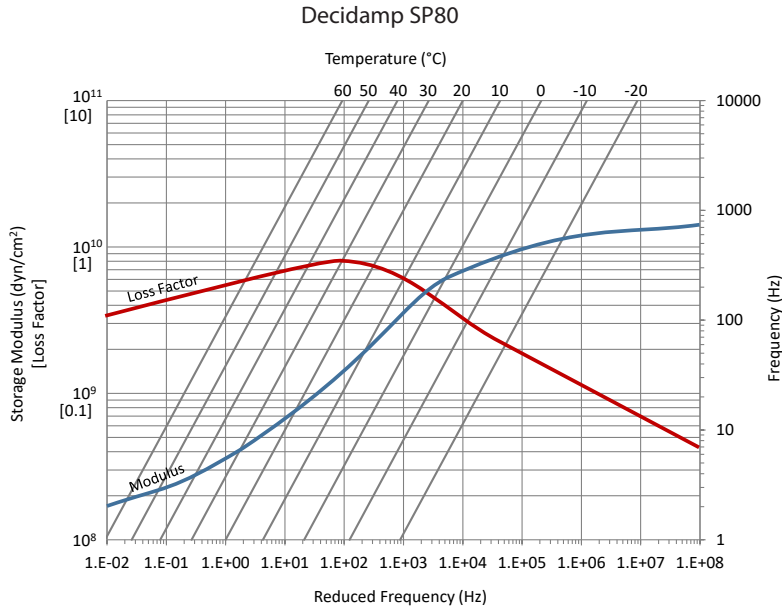
Shelf Life: 24 months from receiving goods (stored under recommended conditions).

MATERIAL PROPERTIES

Test Method	Property	Report No.	Results
BS 476 Part 6	Fire propagation	376684	Complies with Class 0
BS 476 Part 7	Surface spread of flame	376685	
BS 476 Class 0 summary	Surface spread of flame Fire propagation	376686	
UL94	Flammability of plastic materials	29516AC1	HF-1, V-0
FMVSS-302	Flammability of interior materials	29516AC2	Complies to the requirements of US (DOT) Department of transportation for occupant compartments of motor vehicles
ISO 10140-2	Airborne noise insulation of 0.42 mm corrugated metal roofing with and without treatment of 1 mm (DFT) Decidamp SP80	T1822-1 & T1822-2	Untreated $R_w (C; C_{tr})/STC = 18 (-1; -2)/18$ Treated $R_w (C; C_{tr})/STC = 23 (-0; -2)/24$
ISO 10140-5	Rainfall noise insulation of 0.42 mm corrugated metal roofing with and without treatment of 1 mm (DFT) Decidamp SP80		Untreated $L_{A} = 74.5$ Treated $L_{A} = 64.3$
ISO 4624	Pull-off test for adhesion	33018BD	$\geq 0.68 \text{ N/mm}^2$



ACOUSTIC PERFORMANCE



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

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.

ACOUSTIC DATA: SYSTEM LOSS FACTOR

Temperature (°C)	Application ratio of Decidamp® SP80 DFT on 1 mm steel (Product thickness: Substrate thickness)		
	1:1	2:1	3:1
15	0.07	0.23	0.38
20	0.04	0.15	0.24

Tested to ISO 6721-3:1994 | Report Number: 27818AR

For further information and contact details, please visit our website 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.

