

WATER BASED VIBRATION DAMPING COMPOUND

DECIDAMP® SP RANGE



BUILDING - INDUSTRIAL - TRANSPORT - MARINE - OIL & GAS



SOUNDPROOFING SOLUTIONS FOR ALL INDUSTRIES
pyroteknc.com

Pyrotek.



Non-sag formulation

Protect vessels, transportation, vehicles and other structures

WATER-BASED VIBRATION DAMPING COMPOUND

Decidamp® SP (Soundpaint) is a water-based, extensional damping compound designed to reduce impact-generated noise and address resonant vibration at its source. The viscoelastic properties effectively damp and dissipate vibrational energy to alleviate flexural stress of base structures, which can greatly assist in the prevention of metal structural fatigue. Our advanced formula was developed for acoustic improvement in marine vessels, rail carriages, vehicle chassis and other structures that are exposed to vibration and impact.

The Decidamp® range was developed to reduce structural-borne noise, metal fatigue and flexural or dynamic stress of structures.

VIBRATION DAMPING TO REDUCE NOISE & LESSEN STRUCTURAL FATIGUE

Structures with minimal internal damping properties can resonate on impact or when exposed to other momentary forces. If not effectively damped, structure borne vibration is converted to airborne noise. Increased damping in a structure will reduce vibration, noise transfer and structural fatigue. Effective damping can achieve greater than 20 dB reduction in noise.

FEATURES

- Certified to International Maritime Organization (IMO) fire safety standards
- Certified to European Standards EN45545-2 for railway applications
- USCG (United States Coast Guard) approved
- ClassNK (Nippon Kaiji Kyokai) approved
- Lightweight and easy to apply
- Faster drying with no slumping
- Contains no ozone-depleting substances
- Water-based, anti-corrosion and chip resistant properties
- Low consumption rate, high damping performance
- High build rate, with the ability to apply 2 mm thick in one single coat
- Seamless damping solution

Available in pails and drums according to project size and customer requirements.

**50% quicker
application**



Address structural fatigue in engines, underbody and surrounds.



TRANSPORT

Lightweight, less shrinkage across every industry and application

DECIDAMP SP80

Suitable for architectural, building and industrial use



Tested to British Standards - BS 476 Part 6 & 7 - Complies with Class 0.

- Easily applied to any contoured, horizontal or vertical surface
- Apply up to 2 mm in one spray application
- No odour and low Volatile Organic Compound (VOC)

DECIDAMP SP150

Designed for marine and offshore applications



Complies to IMO FTP/SOLAS Annex 1 Part 5 & Annex 2. Wheelmark, USCG and ClassNK approved.

- Wheelmark approved for Marine Industry
- International Marine Organisation (IMO) (fire) approved coating of up to 10 mm thickness therefore highly suitable for thick substrates
- No slumping upon correct application, faster drying
- Can be painted or gel coated over



DECIDAMP SP450 | SP500

Recommended for transport and rail applications



Complies to international fire standards including EN45545-2 - Results R1, R7, R8, R10 HL3.

- Achieves highest fire rating results in latest rail standards
- Premium lightweight formulation. High performance damping with excellent system loss factor
- Offers chip and corrosion resistance, no cracking properties and high build rate



"Pyrotek SP150 Soundpaint® shows significant improvements to the transmission loss, vibration acceptance, and damping compared to the untreated steel and aluminium bulkheads. Comparisons to a previously tested spray-on damping treatment show that Soundpaint® performs significantly better in transmission loss, vibration acceptance, and damping."

Noise Control Engineering Inc. TM 12-071



○ ○ ○ ○ ○ Address resonant vibration in structures, facades, casings, chutes and anywhere high performance damping is required.

TYPICAL AREAS OF USE

BUILDING/INDUSTRIAL -

- Commercial, and multi-storey residential
- Government infrastructure projects, schools, educational and hospitals
- Industrial factories and equipment
- Mills and processing equipment
- Metal roofing - interior rain noise
- Metal structures - frames, facades, stairs
- HVAC - ducts, fan housing ventilation units
- Generator sets - metal panels
- Industrial - cabinets, covers, chutes
- Machinery - sheet metal, guards



MARINE -

- Pleasure craft, luxury
- Super yachts, mega yachts
- Military and amphibious warfare
- Work boats, tugs and trailers
- Commercial, coast guard, rescue vessels
- Offshore oil and gas platforms
- Hulls - reduces wave slap noise and resonance
- Decks, under screed interior floor
- Wall partitions, interior lining
- Bulkhead and deckhead
- Bow thruster, transom, propeller tunnels
- Engine rooms, enclosures
- Superstructure



TRANSPORT & RAIL -

- Carriages - trams, high speed, locomotive, monorail, urban trains
- Military, personnel carriers, combat, utility and transport vehicles
- Mining vehicles and equipment
- Specialist vehicles - armoured vehicles
- Passenger rail carriages - interior linings, floor, wall and ceiling
- Diesel and electric motor carriages
- Bus and truck - floor pans, engine bay, under bonnet, firewall, wheel arches
- Underbody, and interior body applications



Highest certification
in fire standards

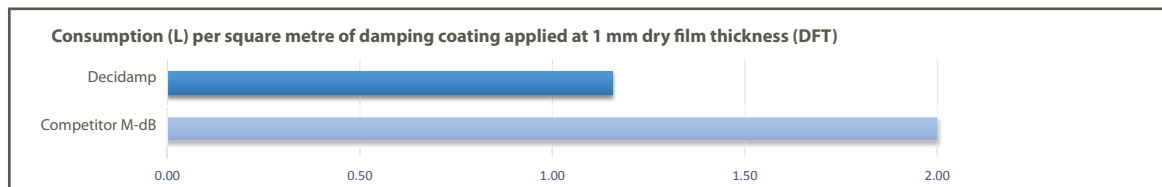


Reduce vibration across challenging substrates and areas ○○○○

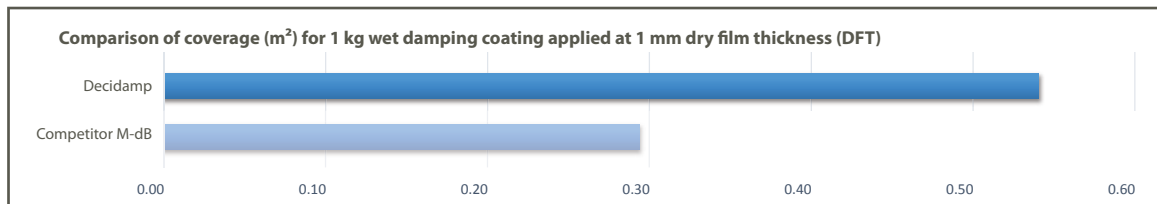
*Based on supplier technical datasheet & literature 2017

Better coverage
apply less

OUTSTANDING CONSUMPTION AND COVERAGE



CONSUMPTION (L/m²/mm DFT)



COVERAGE (m²/kg/mm DFT)

15% lighter
high solids



EASY INSTALLATION

Specifically formulated to provide high adhesion to many substrates including metal (electro galvanised steel, uncoated aluminium and stainless steel), and fibre reinforced plastics (FRP). The final cured layer of Decidamp varieties is water resistant and chip resistant. Decidamp is optimised to work best at typical temperatures of use.

INDEPENDENT CERTIFICATION AND TESTING HAS BEEN CONDUCTED BY:

Exova Warrington, UK

Van Cappellen Consultancy, Netherlands

Intersona, Netherlands

LA.P.I., Italy

Intertek, USA

SGS, France

Noise Control Engineering, USA

TÜV SÜD, Singapore



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With over 40 years of noise control experience, Pyrotek® is a well trusted name for performance improving technical solutions. We offer global resources with dependable local support.



80+ locations in 30 countries

- Six research and development centres
- Five engineering centres
- Global headquarters in Spokane, Washington, USA

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CONTACT DETAILS
for further information or to see your local office
please visit our website

Pyrotek endorse forest sustainability and the preservation of natural environment. We procure the highest quality materials from suppliers who hold FSC (Forest Stewardship Council) Certification and PEFC (Programme for the Endorsement of Forestry Certification) amongst other certification programmes.

Caveats: Specifications are subject to change without notice. The data in this document are 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 or 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 www.pyroteknc.com/disclaimer.

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