

DECIDAMP® DC30

two component damping paste compound

Decidamp® DC30 is a two-component polyurethane based damping paste, which works best in a constrained layer configuration (sandwich system) where its excellent viscoelastic damping properties result in substantial reductions in structure-radiated airborne sound.

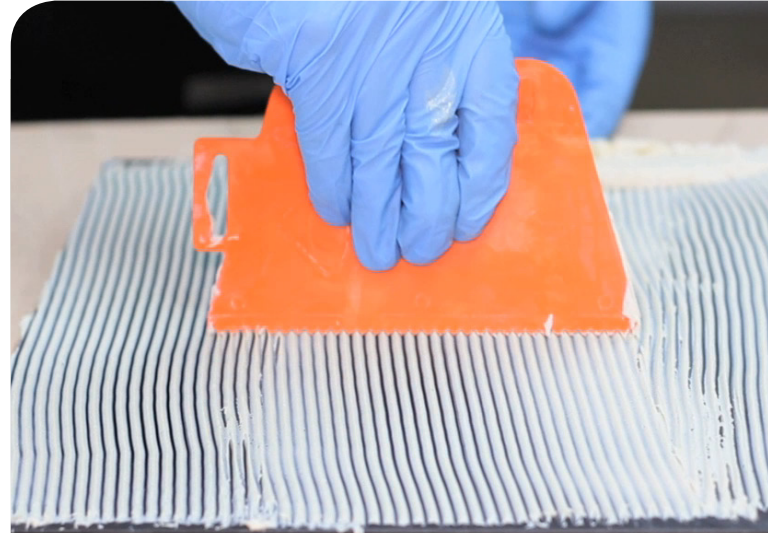
Structural vibration caused by engines, impact noise and footfall is converted to airborne noise, often resulting in excessive noise levels in another part of the structure. By utilising its viscoelastic damping properties, Decidamp® DC30 effectively reduces the spread of vibration throughout the structure.

Decidamp® DC30 is applied to a metal or plastic counter plate which is then bonded to the surface that needs to be treated. During curing, it will bond to both the counter plate and surface substrate, creating an excellent damping medium.

It is corrosion resistant, highly thixotropic and is used on horizontal and vertical surfaces without slumping.

SPECIFICATIONS

Colour	Brown to beige
Available	Available in 11 kg pack consisting of Part A and Part B
	Part A 10 kg
	Part B 1 kg



applications

- Marine: hulls, deck and bulkheads to reduce vibration noise and structure borne noise
- Propeller and bow thruster area
- Floors - to reduce impact noise
- Heavy construction industries such as earthmoving equipment
- Portable generator and pump units
- Transport: automotive and rail industry

features

- Tested to international marine fire standards
- Reduces the spread of vibration throughout the structure
- Improve internal noise levels
- High coverage rate, fast application & curing
- Excellent adhesion, even to steel, aluminium and glass composite substrates
- Highly effective reducing structure borne noise
- Suitable for outdoor exposure
- Excellent flame resistance, self-extinguishing
- Broad temperature range
- Low-weight, viscoelastic damping
- Cures without shrinking or cracking
- Low odour



PRODUCT SPECIFICATIONS

Product name	Pack size (kg)	Mix ratio A:B w/w	Thickness of applied compound
Decidamp® DC30 Part A	10	-	-
Decidamp® DC30 Part B	1.0	-	-
Decidamp® DC30 mixed	-	10:1	1 mm

APPLICATION PROPERTIES

Material	Colour	Density (g/cm ³)	Viscosity (Brookfield T-F spindle at 1 RPM)	Recommended application temperature range (°C)	Pot life at 25 °C	Full cure at 25 °C	Counter plate
Decidamp® DC30	brown to beige	1.3	2,250 Pa.s	10 to 35 °C*	20 to 30 minutes*	24 hrs	1/3 of substrate thickness

*Based on cure of bulk material in a full mix of 10 kg

MATERIAL PROPERTIES

Test method	Property	Report no.	Results
IMO FTP Annex 1 Part 5	Surface flammability	327544	Complies for bulkheads, walls or ceiling linings and floors
IMO FTP Annex 2	Smoke and toxicity		
MED B	EC Type Certificate (Module B) for Marine Equipment Directive	164.112/1121/MEDB0000413	
MED D	EC Type Certificate (Module D) for Marine Equipment Directive	MEDD000015N	

Results were obtained in systems utilizing solid counter plates.

ACOUSTIC PROPERTIES

System Loss Factor (ISO 6721-3)		Decay Rate (Based on ISO 7626-5)	
Substrate material & thickness	1.9 mm steel	Substrate material & thickness	5 mm steel
Constraining layer material & thickness	0.5 mm steel	Constraining layer material & thickness	1.5 mm steel, 13% perforation
Decidamp® DC30 thickness	0.5 mm	Decidamp® DC30 thickness	1.5 mm
System loss factor (23 °C)	0.11 at 200 Hz	Decay rate – substrate only (23 °C)	6 dB/second
		Decay rate – with DC30 + constraining layer (23 °C)	700 dB/second

Test Report Number: 20214AR

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 or mechanical 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.

