

## 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.

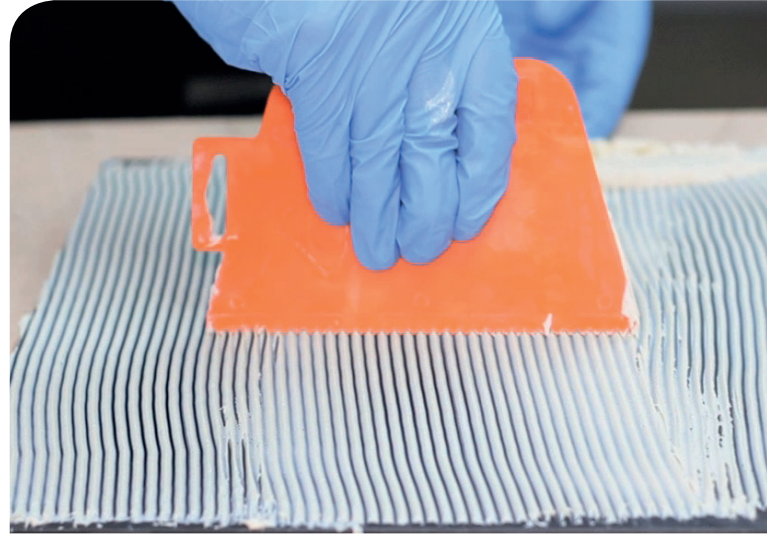
Structural vibration caused by engines, impact noise and footfall is converted to airborne noise, often resulting in excessive noise levels in another part of the structure. By utilising its viscoelastic damping properties, Decidamp® DC30 effectively reduces the spread of vibration throughout the structure.

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/cm³)	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