Technical Specifications
EcoDamp

DESCRIPTION

Soundown's EcoDamp is a highly flexible, self adhesive, damping materials suitable for reducing structureborne noise and sealing acoustic leaks. Damping is provided by a viscoelastic polymer layer and an aluminum foil constraining layer. The non-foil side has an aggressive pressure sensitive adhesive (PSA) backing, ensuring easy installation by providing excellent holding strength when applied to many substrates.

EcoDamp's damping properties make it an excellent choice for reduction of structureborne noise radiated off light weight panels. Such applications include light weight FRP panels as well as sheet metal enclosures and housings.

EcoDamp's high degree of formability allows for easy installation around pipes or cables. This allows EcoDamp to be used as an acoustic seal to close of leaks that occur where pipes and cables penetrate a bulkhead. By attaching the EcoDamp to the bulkhead and forming it around the pipe or wire the noise is prevented from escaping the machinery space. Sealing acoustic leaks significantly increases performance of the complete acoustic insulation package.

EcoDamp can also be applied directly to pipes to reduce breakthrough noise. This treatment is often applied to gray water, black water, and deck drain piping where fluid passing through the pipe can result in unwanted noise in living or work areas.

Typical Physical Properties		
Color	Facing: Aluminum Polymer: Black	
Specific Gravity	1.45	
Hardness (ASTM D-5)	6.5 - 9mm	
Shelf Life	At least 6 Months when stored at less than 40°C (104°F)	
Temperature Resistance	Withstands temperatures of 200°C (392°F) with no deformation	
Peel Strength 90° Peel, 300mm/min (11.8'/min)	Oily Cold Rolled Steel	38N/25mm (8.5lb/inch)
	Oily Galvanized Steel	36N/25mm (8.1lb/inch)
	E-Coat (ED-11)	60N/25mm (13.5lb/inch)
Cold Flexibility	Can be bent around a 25mm mandril at -30°C (22°F) with no cracking or loss of adhesion	
Flammability	Meets FMVSS302, self extinguishing	
Damping Properties (Per SAEJ1637, 0.8mm test beam)	Composite loss factor between 0 and 60°C (140°F) @ 200 Hz: 0.1 - 0.32	

SOUNDOWN
FOR PEACE AND QUIET

Salem, MA		Ft Lauderdale, FL	
16 Broadway Salem, MA 01970		3005 SW 2nd Ave, Ste 102 Ft Lauderdale, FL 33315	
Phone	(978)745-7000	Phone	(954) 761-9188
Fax	(978) 745-0900	Fax	(954) 761-3136
www.soundown.com		sales@soundown.com	

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