

Bostik

BOSTIK 8152 ADHESIVE BACKED SHEET FORM SOUND DEADENER

PRINCIPLE

Sheet Form Sound Deadeners operate on the principle of vibration damping. They effectively damp (deaden) the resonant vibration of metal panels, that radiate noise, by absorbing the vibration energy. The stifled vibration restricts sound emission and also aids in reducing structural stress and fatigue.

DESCRIPTION

Bostik 8152 Sheet Form Sound Deadener adhesive backed is a bitumen compounded sheet that is coated with a "transfer" pressure sensitive adhesive protected by a silicone release paper.

This product is self adhesive and is designed for applying at ambient temperatures.

TYPICAL USES

This product has uses in the construction, whitegoods (appliances), commercial, industrial and transport fields.

Examples of sound deadening uses are:-

- . Elements used in cladding (eg: curtain walls, metal roof panels).
- . Steel furniture
- . Steel doors
- . Baths
- . Commercial kitchen equipment
- . Urinals and troughs
- . Ductwork and piping.
- . dish washers
- . Washing machines
- . Compressors/generator housings
- . Passenger cars
- . Trucks
- . Building machinery
- . Industrial machinery

APPLICATION

The substrate to which the sound deadener sheet is to be applied must be clean, dry and free from dust.

For substrates with painted or coated finishes, adhesion must be checked prior to use.

Remove backing paper and apply sheet to panel, for best results panel and sheet temperature should be 20-35 deg. C.

Use a high pressure hand roller, from the centre of the sheet out to the edges, to expel all air and to ensure total, intimate contact to the panel.

TECHNICAL DATA

COLOUR	Black
ADHESIVE TYPE	Acrylic based, pressure sensitive
RELEASE PAPER	Silicone coated paper
ODOUR	Insignificant
DENSITY	1.80 +/- 0.5 gm/cm ³
HANDLE-ABILITY	Semi-flexible at ambient temperature, tends to be brittle in cold conditions.
HARDNESS	65 +/- 5 shore A durometer
FLAMMABILITY	89mm/minute burn rate (FMVSS 302 - Automotive standard)
ADHESION	Excellent (sheet breaks or cracks when "lifting" force applied)

SOUND DATA (for guidance only)

SHEET SIZE	DAMPING FACTOR (Minimum)
1.7mm thick sheet	10.6 db/second (@ 23 deg. C)
2.3mm thick sheet	23.6 db/second (@ 21.4 deg. C)
4.0mm thick sheet	39.5 db/second (@ 21.4 deg. C)
5.0mm thick sheet	80.6 db/second (@ 15.2 deg. C)

Test Method: AS 1937.10 (1977) - Determination Of Damping Co-Efficient by the thick plate (Geiger) method.

PERFORMANCE DATA

HEAT RESISTANCE	When correctly applied, product withstands 1 hour @ 100 deg. C in a vertical plane.
PERMANENT HEAT RESISTANCE	When correctly applied, product withstands in excess of 9 months exposure @ 70 deg. C in an inverted horizontal plane (ie: upside down or underneath test panel).
MOISTURE RESISTANCE	<p>When correctly applied, product withstands in excess of:-</p> <p>a) 2 months total immersion in water @ ambient temperature.</p> <p>b) 4 months exposure to 100% relative humidity @ 40 deg. C.</p> <p>Assessment criteria is that when a vertical lifting force is applied, the product shall break or crack but will not separate easily (ie: one piece) from substrate.</p>
RESISTANCE TO COLD	<p>When correctly applied, product shall withstand:-</p> <p>a) One 2 joule impact @ -5 deg. C (ie: 100% retention;</p> <p>or</p> <p>b) 80% retention when dropped twice through an angle of 90 deg. C under its own weight in a slamming fixture @ -20 deg. C.</p>

AVAILABILITY

THICKNESS	1.7mm to 5mm
SIZE	Standard size = 970 x 1000mm. Special shapes available on request (within 1m x 1m area).
PACKAGING	Supplied as multiple flat sheets stacked on pallets (up to a height of 420mm).

STORAGE & HANDLING

Store in a dry area, undercover in temperature range of 10 deg. C to 35 deg. C.

Storage stability is 6 months minimum provided product is not multiple stacked and stored within above temperature range.

Handling is recommended to occur between 15 deg. C and 35 deg. C.

ENVIRONMENTAL

Our product is non toxic and does not cause dermatitis or irritation to operators.

BOSTIK (AUSTRALIA) PTY. LTD.

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