

ACOUSTICK

Contact adhesive

Acoustick is a synthetic rubber solvent based contact adhesive, that must be applied to both surfaces to be bonded. It features good sprayability, high heat resistance, rapid bond strength and long open tack life.

It has good adhesion to metal, timber, rigid or flexible acoustic insulation foam, MDF and some plastic surfaces and are therefore used in many industrial applications.

Pyrotek® noise control products can be installed applying Acoustick contact adhesive on both surfaces to be bonded.

Pyrotek® also offer products that are pre-sprayed with Acoustick contact adhesive, in which case, you will be required to apply Acoustick contact adhesive only to the surface of the substrate being bonded to. The adhesive applied on the substrate will reactivate the dry film of pre-sprayed adhesive backing the product, and form a bond on contact, with high initial strength and shear resistance.

SPECIFICATIONS

Colour	clear
Packaging	Available in 1, 4 and 20 litre pails pressure cans
Coverage	80% coverage on both surfaces Up to 4 bonded m ² /litre Up to 8 m ² /litre on one surface, if product has pre-sprayed adhesive backing
Shelf life and storage	12 months from date of manufacture if storage instructions followed Store in a clean, well ventilated, dry environment with a stable temperature of between 10°C-20°C Store under cover and away from direct sunlight, heat and naked flames
Clean up	Clean spills and tools with a clean-down solvent like white spirit.



applications

- Metal surfaces
- Timber
- Rigid or flexible acoustic insulation foam
- Medium-density fibreboard (MDF)
- Some plastic surfaces

features

- n-hexane solvent safe
- High heat resistance
- Good sprayability and adhesion to most substrates.
- Easily applied to curved surfaces and edges
- Broad temperature range -40°C to +100°C
- Fast drying



MATERIAL PROPERTIES

Adhesive type	Polychloroprene rubber resin
Solids content	Solids (by wt.) 18-21%
Viscosity	Sprayable (approx. 310cps)
Water resistance	Good but not for continuous immersion
Oil and petrol resistance	Good - but will not withstand immersion
Open time	Approx. 20 mins @20°C
Tack Up Time	3 - 5 mins @20°C
Working time	5 - 20 minutes
Drying time	10 - 20 mins
Curing time	Up to 50 mins
Operating Temperature Range	-40°C to +100°C
Flash Point	-22°C Highly flammable

The figures in the table are quoted for guidance only. Please verify suitability for your requirements and application environment. Factors like temperature, humidity, nature of substrates affect drying and curing times.

APPLICATION EQUIPMENT

- For large areas (over 3m²), use a gravity-fed spray gun and a 'Pressure pot'. Use a 1.5 - 2mm tip in both.
- Air pressures and gun settings will depend on the adhesive used. Typically, high atomising pressure is required to give a good even spray pattern, between 60-100 PSI or 4-7 bar.
- Air pressure to the pressure pot needs to be approximately 30 psi or 2 bar. This will depend on the hose length and viscosity of the adhesive.
- Acoustick can also be applied using a paint brush. Brushes/roller designed for oil-based paint may be used. However, applying contact adhesive other than by spray for larger applications, is time consuming with a tendency to over apply and waste adhesive.



Pressure pot



Gravity-fed spray gun



APPLICATION GUIDELINES

1. Mix the adhesive thoroughly before use.
2. Follow 'Health and Safety' precautions: Gloves, protective goggles and any other appropriate safety equipment based on local health and safety requirements and safe work practice must be worn by applicator. Avoid contact with skin, eyes and avoid breathing in vapour. Ensure good ventilation and no ignition sources during application as the bonding process emits solvent vapours.
3. Substrates and Surface preparation : Surfaces must be dry and free from dirt, dust, oil, loose paint, wax, grease . Any loose or flaking material, (or residue from sanding if metal substrate) must be cleaned with lint-free or tack cloth. (For further information on various substrates and appropriate surface preparation, please request your local Pyrotek representative for our Contact Adhesive Installation guide 'CA-IG')
4. Spray a light , even coat of adhesive to both surfaces so it looks like a fine web. (see recommended 'Coverage' on page1) Edges to be post-formed must have 100 % coverage.
5. Allow the adhesive to dry for 3-5 minutes after application and before bonding, or till the surface can be touched without any adhesive transfer. Highly porous or absorbent surfaces may require two coats. Allow the first coat to tack off before applying the second coat. The thicker the layer of adhesive, the longer it will take to dry. (Care: It is common mistake to bond the materials with contact adhesive ahead of time.)
6. Align and position the surfaces being bonded carefully taking care to avoid air pockets. Spacers such as dowels or laminate strips may be used to prevent premature contact and bonding as no adjustment is possible after contact. The initial bond is immediate. If used, slide out the spacers and apply uniform pressure.
7. A roller may be used to apply adequate and uniform pressure (especially on edges) For products 3 to 50 mm thick , use a 150 mm thick x 200 mm wide rubber roller.
8. Avoid air pockets, press firmly with uniform pressure in one direction only. Move the block/tool/roller in the same direction each time making sure the entire surface is covered. Firm pressure develops better adhesive contact and improves bond strength.
9. Some residual solvent vapour may be present in freshly adhered product. This should be left to dissipate to prevent any possible risk of ignition.



Tips:

- Moisture from condensation must be dried prior to bonding
- Under application of adhesives gives a dull appearance.
- Failed bond can be a result of inadequate assembly pressure and/or exceeding open time.

Note: Use our instructions as a general guideline. The responsibility to assess and compensate for application environment lies with the installer.