MBS Polystyrene Spray Adhesive

Technical Datasheet

The MBS Polystyrene will bond to a wide variety of substrates, most importantly to polystyrene itself. It is ideal for permanent bonds that require good initial bond strength. The most common building materials such as plasterboard, aluminium, concrete, brickwork, steel, MDF, chipboard, plywood and other timber sheets are suitable to use MBS Polystyrene with. **Not recommended on laminate, plasticized PVC or vinyl.**

Features

- **BONDING POLYSTYRENE**
- **LONG OPEN TIME**
- **FAST & EASY APPLICATION**
- **NON-CHLORINATED**
- **LOW ODOUR**
- **HIGH SOLIDS**

Technical Specifications

Solvent:	Hydrocarbon
Propellant:	Hydrocarbon
Solids:	35%
Spray Pattern:	Web
Colour:	Clear
Coverage (17kg canister):	~ 105m^2
VOC:	565g
Shear Adhesion Failure Temp:	71°C
Available Sizes:	17kg, 65kg

Storage

Do not stand on a cold concrete floor or allow the product to freeze. Protect from extremes of temperature in a controlled environment between 15 and 35°C, and away from direct sunlight. Low temperatures can result in irreparable separation of the adhesive. If the adhesive sprays like a jet, the canister is too cold. Warm to at least 10°C before using. Stored under the correct conditions, in original, unopened containers, the product will have a shelf life of 12 months.

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Directions

1. Surfaces should be clean, dry, and free from grease, oil, and dust. Excessive dust will impair performance. For best results, the substrate and product should be bonded at temperatures between 5°C to 25°C.
2. Attach a suitable spray nozzle, such as a Unijet 6501, to the spray gun.
3. Connect the hose to the canister and the spray gun to the hose and tighten the connections. If there are any leaks, tighten the connection at the source of the leak.
4. Open the valve on the canister. The valve should remain open until the canister is used up. Use the locking nut on the gun after use. Turning off the valve will result in the adhesive drying in the hose and gun causing blockages.
5. Hold the spray gun 10-20cm away at 90° to the surface and apply a uniform coat of adhesive, to one or both substrates, ensuring 80-100% coverage. If both surfaces require coating, then spray one surface vertically and the other horizontally. Pay particular attention to the edges.
6. When the adhesive is dry to the touch it is ready for the bond to be made.
7. Porous substrates may require two applications.
8. Drying takes approximately 1 to 2 minutes depending on substrates, ambient temperature, and humidity. Over-spraying and pooling of the adhesive may increase the drying time.
9. After spraying, remove the spray gun tip and rinse with Solvent Cleaner before it has cured.
10. Allow the adhesive to tack up and protect from contamination whilst this happens. The adhesive is ready to bond when it feels dry to the touch and does not transfer.
11. Once the two surfaces have been brought together, an aggressive bond will be made. Spacers can be used to ensure the surfaces do not come into contact prematurely.
12. Once the two surfaces are brought together, apply a uniform pressure over the workpiece, starting in the middle and working outwards. Use blocks or a 3-inch roller and ensure the whole piece has been worked to ensure adequate contact with the adhesive.
13. Pay particular attention to the edges. Please note that testing at this point by lifting the edge will weaken the bond. A nip roller will give the best results.
14. Once assembled, the piece can be machined or trimmed as required. Full cure will take 24 hours.
15. Keep the valve open and the hose attached to the canister until there is no more adhesive. If the hose is removed, clean through with solvent cleaner to prevent adhesive drying, which will cause the gun and hose to block. Turn the canister off before removing the hose.

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Limitations

MBS Polystyrene dries in two minutes under normal conditions but this will vary under different temperatures and humidities. High humidity and low temperatures will slow the drying time and if the temperature gets very low, can produce bloom. Bloom is moisture which forms on the glue line caused by solvent evaporation lowering the air temperature above it.

Disclaimer

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