

TECHNICAL DATA REPORT

Low-VOC HVAC Cylinder Spray Adhesive: Magna Tack MT-LC

Part Number: **MT-LC** | Recommended Use: High-strength, low-VOC, web-spray adhesive engineered for permanent bonding of HVAC duct liner and other porous insulation materials.

1. Product Overview & Key Features

Magna Tack MT-LC redefines industrial bonding with an MIR 50-State Compliant, ultra-low VOC (2.45 g/L) formula. This high-solids adhesive (≈42% content) is engineered for efficiency, delivering superior yield and aggressive tack required for heavy-duty HVAC and construction applications. It utilizes a controlled web-spray pattern to bridge gaps on porous surfaces like fiberglass and duct board without soaking in, ensuring a permanent, robust bond.

Compliance and Performance Highlights

- MIR 50-State Compliant:** Fully legal in all 50 states, eliminating the need for regional SKUs.
- High Solids Content:** Approximately 42% solids*, providing superior coverage and gap-bridging on porous materials.
- Ultra-Low VOC:** Formulation of just 2.45 g/L, meeting strict air quality and "Green Building" standards.
- Rapid Tack & Open Time:** Solvent flashes in 15-30 seconds with a rapid open time, designed for high-speed production.
- Multi-Substrate Versatility:** Securely bonds HVAC duct liner, sheet metal, wood, urethane, rubber, glass, ceramic, plastic, and Formica.
- Waterproof & Non-Staining:** Ensures long-term durability and is safe for use in environments subject to humidity.

2. Technical Data

Physical & Chemical Properties	
Product Base / Resin System	Synthetic Polymer / Solvent-based (Flammable)
Color / Appearance	Transparent / Light Amber
VOC Content (Formula)	2.45 g/L
Solids Content (Approx.)	≈ 42%

Physical & Chemical Properties	
Service Temperature Range	High-Performance (Refer to full SDS for specific continuous limits)
Solvent Type	Low-VOC Hydrocarbon Blend

Application & Performance Metrics	
Recommended Application Temperature	Room Temperature (60°F - 80°F recommended)
Flash Time (Required Wait Time)	15 – 30 seconds
Cure Time (Full Strength)	Instant Grab / 24 Hours (Full Chemical Cure)
Cleanup Solvent	Universal Adhesive Remover (e.g., Vapco MT-AR)
Estimated Peel Strength	High-Strength Permanent Bond (Value not specified in source)

MATERIAL INCOMPATIBILITY WARNING: Do not use this product on Polystyrene, Styrofoam, EPS (Expanded Polystyrene), or XPS (Extruded Polystyrene) foam, as the solvent carriers will degrade these materials.

3. Safety Data Sheet (SDS) Summary

Hazard Identification (GHS Classification)	
Signal Word	Danger
Physical Hazards (H-codes)	H222 (Extremely flammable aerosol)
Health Hazards Summary (H-codes)	H315(Skin irrit.), H319 (Eye irrit.), H335(Respiratory irrit.), H373 (Organ damage via repeated exposure)
Reproductive Toxicity Classification	Not classified for Reproductive Toxicity (based on available H-codes)
California Prop 65 Warning	No warning explicitly listed in GHS Classification section.

Handling, Storage, and First Aid	
Storage Temperature Limit	Do not expose to temperatures above 120°F (49°C). Store in a cool, dry area off concrete.
Key Safe Handling Precautions	Use in a well-ventilated area, and wear protective gloves and eye/face protection.

Handling, Storage, and First Aid	
First Aid (Ingestion) Instructions	DO NOT induce vomiting. Seek immediate medical attention.

4. Frequently Asked Questions (FAQs)

Q: Is Magna Tack MT-LC affected by upcoming EPA “Sunset Dates”?

A: No. Unlike adhesives containing HFCs or Perc that face bans in 2026/2027, Magna Tack is a future-proof formula with no known upcoming EPA phase-out dates.

Q: Why is 50-State Compliance important for distributors?

A: Magna Tack is engineered to be MIR 50-State Compliant, meaning it is legal everywhere. This eliminates shipping restrictions and the need for distributors to stock different SKUs for different regional air quality regulations.

Q: What is the shelf life of a Magna Tack cylinder?

A: Magna Tack cylinders have a manufacturer warranty of 1 year from the date of manufacture when stored correctly (below 120°F/49°C, off concrete floor).

Q: What is the benefit of the high solids content?

A: The adhesive features approximately 42% solids content, which is significantly higher than economy sprays. This delivers a heavier adhesive load per pass, effectively bridging gaps on porous surfaces like fiberglass and duct board with less product usage.

Q: How should I dispose of an empty cylinder?

A: The MT-LC is a non-refillable DOT 39 cylinder. Once empty, turn the valve open to release any remaining pressure, punch the knock-out plug (if equipped), and follow local scrap metal recycling guidelines for empty steel pressure vessels. Never incinerate or puncture a pressurized cylinder.

Q: Does this adhesive meet green building standards?

A: Yes. The formula maintains an ultra-low VOC profile of just 2.45 g/L, which helps facilities and projects meet “Green Building” and LEED standards while maintaining aggressive industrial tack.