Vapco Products, Inc.

TECHNICAL DATA REPORT

Low VOC HVAC Duct Liner Spray Adhesive: Magna Tack MTA-1

Part Number: **MTA-1** | Recommended Use: Specifically formulated for repairing insulation and duct systems.

1. Product Overview & Key Features

Magna Tack is an engineered Ultra-Low VOC (0.9 g/L) HVAC Contact Adhesive formulated for repairing insulation and duct systems. Utilizing proprietary resin technology, it delivers a high-solids (35%+) web spray for maximum yield and provides a permanent bond with superior thermal stability up to 200°F. The formula ensures immediate, high-strength adhesion while meeting the most stringent air quality and safety codes nationwide.

Compliance and Performance Highlights

- **Ultra-Low VOC (0.9 g/L):** SCAQMD 1168 compliant and 50-State compliant aerosol.
- **200°F Thermal Stability:** Prevents bond failure and "creep" in high-heat environments like unconditioned attic spaces.
- **High Solids Content (30%–40%):** Ensures superior yield and maximized coverage area (more active glue per can).
- **Non-Carcinogenic Solvent Base:** Free of restricted solvents including Methylene Chloride and Toluene.
- **Dual-Action Poly-Tack Resin Blend:** Creates permanent bonds to low-surface-energy materials like polyethylene bubble foil and fiberglass.
- **Fast-Flash Solvent Base:** Allows rapid surface mating in 30–60 seconds for quick installation.

2. Technical Data

Physical & Chemical Properties	
VOC Content	0.9 g/L (Ultra-Low VOC)
Solids Content	30% – 40% (High Solids)
Service Temperature Range	Up to 200°F (93°C)
Adhesive Base/Resin System	Dual-Action Poly-Tack Resin Blend (Proprietary)
Color/Appearance	Yellow/Amber Liquid (Aerosol Spray)

Physical & Chemical Properties	
Solvent Type	Methyl Acetate / N-Hexane Base

Application & Performance Metrics	
Recommended Application Temperature	60°F to 90°F (15°C to 32°C)
Flash Time (Required Wait Time)	30–60 seconds (for permanent contact bonding)
Cure Time (Full Strength)	Achieves handling strength rapidly (Full Cure Not Specified)
Cleanup Solvent	Standard Mineral Spirits
Estimated Peel Strength	High Strength (Value Not Specified)

MATERIAL INCOMPATIBILITY WARNING: Do not use on Polystyrene, Styrofoam, or any EPS/XPS foam, as this aggressive solvent formula will dissolve the material.

3. Safety Data Sheet (SDS) Summary

Hazard Identification (GHS Classification)	
Signal Word	Danger
Physical Hazards (H-codes)	H222 (Extremely flammable aerosol); H280 (Gas under pressure)
Health Hazards Summary (H-codes)	H315, H319, H336, H361, H373 (Causes skin/eye irritation, Drowsiness/Dizziness, Suspected Reproductive Toxicity, Organ Damage)
Reproductive Toxicity classification	Category 2 (H361: Suspected of damaging fertility or the unborn child)
California Prop 65 Warning	Not specified in source material.

Handling, Storage, and First Aid	
Storage Temperature Limit	Avoid extremely high or low temperatures (Maintain within optimal application range of 60°F to 90°F).
Key Safe Handling Precautions	Shake vigorously before use; Apply 4–8 inches from surface; Invert can immediately after use and spray to clear valve.

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

4. Frequently Asked Questions (FAQs)

Q: How low is the VOC content of Magna Tack, and is it truly 50-State Compliant?

A: Magna Tack is an ultra-low VOC adhesive, containing only 0.9 g/L, which is significantly below the SCAQMD Rule 1168 limit. This ensures full 50-State compliance for use in all commercial and green building projects.

Q: Does this adhesive contain Methylene Chloride or other restricted solvents?

A: No. Magna Tack uses a specialized Methyl Acetate/N-Hexane solvent base and is formulated to be free of ozone-depleting and carcinogenic restricted solvents, including Methylene Chloride and Toluene.

Q: Will Magna Tack bond polyethylene (PE) bubble foil insulation to metal ductwork?

A: Yes, absolutely. Magna Tack uses the proprietary Dual-Action Poly-Tack Resin Blend, chemically engineered to bond to low-surface-energy plastics like polyethylene and foil facings.

Q: How does the "High Solids Content" benefit me?

A: The 30-40% solids content delivers more active glue per can, which results in a superior yield and maximizes coverage area, thereby lowering cost-per-job.

Q: What does the 200°F thermal stability mean for my application?

A: It prevents bond failure and "creep" in high-heat environments, ensuring reliability in unconditioned attic spaces or high-heat supply ducts.

Q: What is the required flash time?

A: The fast-flash solvent base requires only 30–60 seconds flash time for permanent contact bonding, allowing surfaces to be mated quickly to accelerate installation rates.