Vapco Products, Inc.

TECHNICAL DATA REPORT

Powdered Condenser Coil Cleaner | FMP-1

Part Number: **FMP-1** | Recommended Use: A powdered, self-heating alkaline blend designed to penetrate, foam, and push heavy soil and grease out of multi-row outdoor condenser coils.

1. Product Overview & Key Features

Foaminator Powder is a micro-milled, Hazmat-Free condenser coil cleaner utilizing a High-Alkaline chemical base and water-activated Exothermic Reaction. Unlike standard foaming cleaners, FMP-1 employs a Delayed-Foaming action that soaks deep into the coil core before expanding, physically pushing impacted debris and grease out from the inside. This formulation ensures rapid dissolution and guarantees a clog-free application when used with recommended equipment.

Compliance and Performance Highlights

- **Exothermic Advantage:** Generates instant heat upon mixing to rapidly melt grease and heavy oil.
- **Delayed-Foaming:** Eliminates surface bridging by penetrating deep into multi-row coils before the foaming reaction.
- **Micro-milled Concentrate:** Guarantees rapid, complete dissolution in water to prevent sprayer tip clogging.
- **High Dilution Yield:** One 8oz bag yields between 1 to 2 gallons of industrial strength or maintenance cleaner.
- **Brightening Action:** High-pH alkaline chemistry strips dull oxide layers and white rust from aluminum fins, restoring heat transfer efficiency.

2. Technical Data

Physical & Chemical Properties	
VOC Content	0 g/L (Powder Concentrate)
Solids Content	100% (Powder Concentrate)
Service Temperature Range	N/A (Exothermic Upon Mixing)
Adhesive Base/Resin System	High-Alkaline Blend

Physical & Chemical Properties	
Color/Appearance	Powder Concentrate (Color Not Specified)
Solvent Type	Water-Activated

Application & Performance Metrics	
Recommended Application Temperature	N/A (Cleaning Action is Self-Heating/Exothermic)
Flash Time (Required Wait Time/Dwell)	5 to 8 minutes
Cure Time (Full Strength)	N/A (Cleaning product, requires complete rinse)
Cleanup Solvent	Water Rinse
Estimated Peel Strength	Not Applicable (Coil Cleaner)

MATERIAL INCOMPATIBILITY WARNING: HIGH PH FORMULA
DO NOT use this product on Micro-Channel/Mini-Split coils (due to high pH corrosion risk on brazed aluminum joints) or Indoor Evaporator Coils. Fumes and high-volume rinse requirements make it unsuitable for indoor use.

3. Safety Data Sheet (SDS) Summary

Hazard Identification (GHS Classification)	
Signal Word	DANGER (Inferred from high-pH/Alkalinity)
Physical Hazards (H-codes)	Not explicitly listed on product page (Hazmat-Free for Shipping)
Health Hazards Summary (H-codes)	Causes severe skin burns and eye damage (High-pH Corrosive)
Reproductive Toxicity Classification	Not Listed
California Prop 65 Warning	Not Listed

Handling, Storage, and First Aid	
Storage Temperature Limit	Store in original container in a cool, dry place.
Safe Handling Precautions	Always wear chemical-resistant gloves and safety goggles. Always add POWDER TO WATER (not water to powder) to prevent splashing.

Handling, Storage, and First Aid	
First Aid (Ingestion) Instructions	Call a poison control center immediately. If conscious, give victim 1-2 glasses of water. DO NOT induce vomiting.

4. Frequently Asked Questions (FAQs)

Why is Foaminator Powder superior to standard liquid foaming cleaners?

It uses a Delayed-Foaming action that prevents surface bridging by soaking deep into the coil core for 60–90 seconds before expanding, physically pushing debris out from the inside.

What is the "Exothermic Advantage" of this powdered cleaner?

Rehydrating the high-alkaline crystals creates an Exothermic Reaction, instantly heating the water. This thermal energy, combined with the chemical strength, melts grease and heavy oil faster than cold liquid cleaners.

Does the powder clog sprayer equipment?

No. Foaminator Powder is micro-milled for Rapid Dissolution (under 60 seconds). Particles are engineered to be smaller than sprayer filter mesh, guaranteeing a clog-free application.

What is the recommended dilution for industrial vs. maintenance cleaning?

Heavy Duty/Industrial cleaning uses a 1 Bag (8oz) to 1 Gallon water ratio. Maintenance Duty uses a 1 Bag (8oz) to 2 Gallons water ratio, effectively doubling the yield.

Which types of coils should not be cleaned with Foaminator Powder?

This product MUST NOT be used on Micro-Channel/Mini-Split coils (due to high pH corrosion risk on brazed aluminum joints) or Indoor Evaporator Coils (due to fumes and high-volume rinse requirements).

How long must the cleaner be allowed to dwell on the coil?

The critical dwell time is 5 to 8 minutes. This delay allows the solution to fully penetrate the depth of the coil before the foaming reaction begins, ensuring maximum cleaning performance.