

1. PRODUCT NAME

Polymer Modified MasterSeal (PMM)

2. MANUFACTURER

SealMaster has a nationwide network of manufacturing and distribution facilities.

Phone: 800-395-7325
www.sealmaster.net

3. PRODUCT DESCRIPTION & BENEFITS

Polymer Modified MasterSeal (PMM) is a high performance mineral reinforced asphalt emulsion blended with polymers and special surfactants for superior adhesion, flexibility, and durability. PMM is job-mixed with specifically graded aggregate and applied at a rate of 58-62% solids (unlike conventional sealers that are applied at 40-43% solids). The aggregate provides a safe, skid-resistant surface for both pedestrian and vehicle traffic. PMM dries faster than conventional pavement sealers that are diluted with water prior to application. PMM protects pavement from oxidation, moisture intrusion, and oil. PMM's deep, rich black color gives old, oxidized pavement a "like new" surface that melts snow and ice faster and reduces cleaning and maintenance costs.

Basic Uses: Polymer Modified MasterSeal is designed to beautify and protect asphalt pavement surfaces including parking lots, roadways, and driveways.

Composition: PMM is a polymer modified asphalt emulsion pavement sealer fortified with specialty surfactants to promote superior adhesion and durability.

Sizes: PMM is available in 4,000 gallon bulk tankers, 55-gallon drums, and 5-gallon pails.

Color: PMM dries to a deep, rich black color.

Limitations: PMM shall not be applied when temperature is expected to drop below 50°F at

any time within a 24 hour period after application.

4. TECHNICAL DATA

ASTM Test Methods:

- D-140 Sampling of Bituminous Materials
- D-466 Methods of Testing Film Deposits from Bituminous Emulsions
- B-117 Salt Spray (FOG) Testing
- D-529 Recommended Practice for Accelerated Weathering Test Of Bituminous Materials
- D-2939 Bituminous-Base Emulsions for use as Protective Coatings

Environmental Considerations:

PMM does not contain asbestos. PMM is an environmentally friendly water based pavement sealer containing less than 100 grams per liter volatile organic content (VOC).

Physical/Chemical Properties:

PMM is a polymer modified asphalt emulsion fortified with special surfactants.

5. INSTALLATION

Surface must be clean and free from all loose material and dirt. Pavement surface repairs should be made with a suitable hot or cold asphalt mix. Cracks should be filled with SealMaster hot pour or cold applied crack fillers. Treat all

grease, oil, and gasoline spots or stains with SealMaster Petro Seal or Prep Seal.

Methods: PMM shall be applied by either pressurized spray application equipment or self-propelled squeegee equipment. Pressurized spray equipment shall be capable of spraying pavement sealer with sand added. Equipment shall have continuous agitation or mixing capabilities to maintain homogeneous consistency of pavement sealer mixture throughout the application process. Self-propelled squeegee equipment shall have at least 2 squeegee or brush devices (one behind the other) to assure adequate distribution and penetration of sealer into bituminous pavement. Hand squeegees and brushes shall be acceptable in areas where practicality prohibits the use of mechanized equipment.

TEST	SPECIFICATIONS	RESULT
Material	Material shall be homogenous and show no separation or coagulation that cannot be overcome by moderate stirring.	PASSES
Chem. & Physical Analysis		
- Non Volatiles %	43-47%	PASSES
- Ash Non Volatiles %	42-52	PASSES
- Specific Gravity 25°C Min	1.15	PASSES
Drying Time	8 Hr. Max.	PASSES
Adhesion & Resistance to Water	No Penetration or Loss of Adhesion	PASSES
Resistance to Heat	No Blistering or Sagging	PASSES
Flexibility	No Cracking or Flaking	PASSES
Resistance to Impact	No Chipping, Flaking or Cracking	PASSES

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Mixing Procedures:

For optimum results PMM shall be mixed in accordance with the following mix design (based on 100 gallons for ease of calculation):
PMM Concentrate.....100 gallons
Sand*.....400 lbs.

*(40-70 mesh AFS)

NOTE: If required, a small amount of water may be added to facilitate application of mixed material.

Application: For optimum performance and durability apply two coats of PMM with sand. A third coat of PMM with sand may be applied to high traffic areas such as entrances, exits, and drive lanes.

Application Rate of Mixed PMM:

Apply properly mixed PMM (PMM Concentrate, Sand, and Water - if needed) at a rate of .11 to .13 gallon per square yard (70-82 square feet per gallon) per coat.

Estimating Material Requirements:

To estimate gallons of PMM Concentrate required to cover a specific area use the following coverage rate:

One gallon of PMM Concentrate will cover approximately 85-95 square feet (9.4 to 10.5 square yards) per coat when properly mixed as a sand-filled coat and applied.

Note: Coverage rates may vary due to pavement age and porosity.

Precautions: Both surface and ambient temperature shall be a minimum of 50°F. Temperature shall not drop below 50°F in a 24 hour period following application. New asphalt surfaces should be allowed to cure a minimum of four weeks under ideal weather conditions (70°F) before applying PMM. **Keep Out Of Reach Of Children.** Do not store unopened drums or pails in freezing temperatures.

6. AVAILABILITY & COST

Availability: PMM is supported by a nationwide network of SealMaster manufacturing facilities along with a national network of professional applicators.

Cost: Cost information can be obtained from a local PMM applicator. Contact SealMaster for the PMM representative in your area.

7. WARRANTY

SealMaster Industries warrants that PMM meets the chemical composition and performance requirements set forth in section 4. Liability to the buyer or user of this product is limited to the replacement value of the product only.

8. MAINTENANCE

Periodic cleaning of parking lot surface will ensure optimum product service life.

9. TECHNICAL SERVICES

Manufacturer: Complete product specifications, material safety data sheets, and technical assistance is available from SealMaster.

PMM Professional Applicators: Your local PMM applicator is available to provide on-site inspections and recommendations to meet your specific needs.

10. FILING SYSTEMS

- Sweet's Catalog
- Sweet's CD
- Sweet's Online
- Sweet's Directory
- SealMaster Online Specification at www.sealmaster.net
- Complete SealMaster Product and Equipment Catalog Available

The statements made on this specification sheet are believed to be true and accurate and are intended to provide a guide for approved application practices. As workmanship, weather, construction, condition of pavement, tools utilized, and other variables affecting results are all beyond our control, the manufacturer warrants only that the material conforms to product specifications and any liability to the buyer or user of this product is limited to the replacement value of the product only. The manufacturer expressly disclaims any implied warranties of merchantability or fitness for a particular purpose. Warranty is void on multi-coat applications if material made by other manufacturers is used with this product.

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