

# SEALMASTER POLYMER-MODIFIED COAL TAR SEALER (PMCTS)

**SMT-105**

REVISED 6/27/23

## PRODUCT DESCRIPTION & BENEFITS

SealMaster Polymer Modified Coal Tar Sealer (PMCTS) is a premium quality coal tar emulsion pavement sealer fortified with cross-linking rubber polymers and special surfactants. Crosslinking rubber polymers are hot blended into SealMaster Coal Tar Sealer Concentrate that meets ASTM D5727 specifications. Dilution water is then added at the factory for both accuracy and convenience. The result is a premium coal tar sealer that meets the fuel resistance specifications of ASTM D5727, FAA P-625, FAA P-630 and FAA P-631. PMCTS is job-mixed with specifically graded aggregate and applied at a rate of 50-56% 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. PMCTS dries faster than conventional pavement sealers that are diluted with water prior to application. PMCTS protects pavement from oxidation, moisture intrusion, fuel, and oil. PMCTS'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.

## USES

SealMaster PMCTS is designed to beautify and protect asphalt pavement surfaces including parking lots, airports, driveways, and roadways.

## COMPOSITION

PMCTS is a polymer-modified, clay stabilized coal tar pitch emulsion pavement sealer fortified with specialty surfactants to promote superior adhesion and durability. PMCTS is job mixed with select aggregate to produce a superior skid-resistant wearing surface.

## SIZES

SealMaster PMCTS is available in 4,000 gallon bulk tankers, 55-gallon drums, and 5-gallon pails.

## COLOR

PMCTS dries to a deep, rich black color.

## LIMITATIONS

SealMaster PMCTS shall not be applied when temperature is expected to drop below 50°F at any time within a 24 hour period after application.

## ENVIRONMENTAL CONSIDERATIONS

SealMaster PMCTS does not contain asbestos. PMCTS is an environmentally friendly water based pavement sealer containing less than 50 grams per liter volatile organic content (VOC).

## PHYSICAL CHEMICAL PROPERTIES

SealMaster PMCTS is a premium quality pavement sealer that meets the following material requirements when tested in accordance with ASTM D 140, ASTM D 466, ASTM D 490, ASTM B117, ASTM D 529, ASTM D 2939, and ASTM D244 procedures.

Test	Specifications	Result
Material	Material shall be homogenous and show no separation or coagulation that cannot be overcome by moderate stirring.	PASSES
<b>Chem. &amp; Physical Analysis</b>		
- Non Volatiles %	38% Min.	PASSES
- Ash Non Volatiles %	30 - 40	PASSES
- Solubility of Non Volatiles in CS <sub>2</sub> %	20 Min.	PASSES
- Specific Gravity 25°C	1.18 Minimum	PASSES
Drying Time	8 hr. Max (Typically less than 60 min.)	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
Resistance to Volatilization	10% Loss in Weight Max.	PASSES
Wet Film Continuity	Smooth, Nongranular Free from Coarse Particles	PASSES
Resistance to Kerosene	No loss of adhesion or penetration	PASSES
P-625 Fuel Resistance Test	Evaluation of Fuel Resistance	PASSES
P-630 Fuel Resistance Test	Evaluation of Fuel Resistance	PASSES
P-631 Fuel Resistance Test	Evaluation of Fuel Resistance	PASSES

## 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

SealMaster PMCTS 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

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of sealer into bituminous pavement. Hand squeegees and brushes shall be acceptable in areas where practicality prohibits the use of mechanized equipment.

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## MIXING PROCEDURES

For optimum results, PMCTS shall be mixed in accordance with the following mix design (based on 100 gallons for ease of calculation):

PMCTS Concentrate..... 100 gallons  
Sand\* ..... 200-400 lbs.

\*(40-70 mesh AFS rating)

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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 PMCTS with sand. A third coat of PMCTS with sand may be applied to high traffic areas such as entrances, exits, and drive lanes.

## APPLICATION RATE OF MIXED PMCTS

Apply properly mixed PMCTS (PMCTS 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 PMCTS required to cover a specific area use the following coverage rate:

- One gallon of SealMaster Coal Tar Concentrate will cover approximately 85-95 square feet (9.4 to 10.5 square yards) per coat when properly mixed 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 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 PMCTS. Keep out of reach of children. Do not store unopened drums or pails in freezing temperatures.

## WARRANTY AND DISCLAIMER

The statements made on this technical data 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



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