

### 1. PRODUCT NAME

SealMaster Coal Tar Concentrate FAA Specification P-631

### 2. MANUFACTURER

ThorWorks Industries, Inc.  
2520 S. Campbell St.  
Sandusky, OH 44870  
Phone: 800-326-1994  
Fax: 419-626-5477  
www.thorworks.com

### Additional Plant Locations:

SealMaster has a nationwide network of manufacturing and distribution facilities.

Phone 1-800-395-7325 or visit website at [www.sealmaster.net](http://www.sealmaster.net) to find the location near you.

### 3. PRODUCT DESCRIPTION & BENEFITS

SealMaster Coal Tar Concentrate Pavement Sealer is a clay-stabilized coal tar emulsion pavement sealer designed to protect and beautify asphalt pavement. Coal Tar Concentrate is formulated to be job-mixed with water, aggregate and latex polymer. SealMaster Coal Tar Sealer is a refined coal tar emulsion prepared from a high temperature refined coal tar conforming to the requirements of ASTM specification D490 for grade RT-12 refined tar. Conforms to all requirements of Federal Specification R-P-355.

**Basic Uses:** SealMaster Coal Tar Concentrate is designed to beautify and protect asphalt pavement surfaces including parking lots, airports, driveways, shopping malls, roadways, and more.

**Composition:** SealMaster Coal Tar Concentrate is a clay-stabilized coal tar emulsion pavement sealer fortified with special surfactants to promote superior adhesion and durability. Select aggregate is job-mixed to produce a slip-resistant coating.

**Sizes:** SealMaster Coal Tar Concentrate is available in 4,000 gallon bulk tankers, 55-gallon drums, and 5-gallon pails.

**Color:** SealMaster Coal Tar Concentrate dries to a deep, rich black color.

**Limitations:** SealMaster Coal Tar Concentrate 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

SealMaster Coal Tar Concentrate meets the requirements of ASTM D 5727, RP 355e, ASTM D 3320-74T, FAA P-625, FAA P-627, FAA P-628, FAA P-630 and FAA P-631 specifications for coal tar pitch emulsion (CTPE) pavement sealer.

**Environmental Considerations:** SealMaster Coal Tar Concentrate does not contain asbestos. Coal Tar Concentrate is an environmentally friendly water based pavement sealer containing less than 50 grams per liter volatile organic content (VOC).

**Physical/Chemical Properties:** SealMaster Coal Tar Concentrate is a premium quality pavement sealer that meets the following material requirements when tested in accordance with ASTM D 140, ASTM D 490, ASTM D 466, ASTM B117, ASTM D 529, ASTM D 2939, and ASTM D244 procedures. SealMaster Coal Tar Concentrate also passes the P-625, P-630, and

P-631 fuel resistance test. (see chart below)

### 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:** SealMaster Coal Tar Concentrate 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 %	50% min	PASSES
- Ash Non Volatiles %	30 - 40	PASSES
- Solubility of Non Volatiles in CS <sub>2</sub> %	20 Min.	PASSES
- Specific Gravity 25°C	1.20 Minimum	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
Resistance to Volatilization	10% Loss in Weight Max.	PASSES
Wet Film Continuity	Smooth, Nongranular Free from Coarse Particles	PASSES
P-625, P-630, P631 Fuel Resistance Test	Evaluation of Fuel Resistance	PASSES

# SealMaster® Coal Tar Concentrate

## FAA Specification P-631

### Mixing Procedures:

Composition of Mixture per 100 gallons of Refined Coal Tar Emulsion.

Application:	Refined Coal Tar Emulsion	Water Gallons	Additive Gallons	Aggregate Lbs.	Formula Rate of Application of Mix Per Square Yard Min - Max Gallons
1st Seal Coat	100	25-70	2-6	300-500	.12 - .16
2nd Seal Coat	100	25-70	2-6	300-500	.12 - .16

### Aggregate Requirement:

Sieve Size		% Retained Min.	% Retained Max.
20# or coarser	(0.850 mm)	0	2
#30	(0.600 mm)	0	12
#40	(0.425 mm)	2	60
#50	(0.300 mm)	5	60
#70	(0.212 mm)	5	60
#100	(0.150 mm)	5	30
#140	(0.106 mm)	0	10
#200	(0.075 mm)	0	2
Finer than #200		0	0.3

\*This table represents the maximum range of aggregate gradations. In all cases the refined coal tar emulsion supplier is to give written approval of the aggregate used in the mix design.

**Estimating Material Requirements:**  
The following calculations represent the number of gallons of SealMaster Coal Tar Concentrate that would need to be procured in order to satisfy the mixing and application rates as set forth in FAA Item P-631 specifications:

**Sand Slurry Coat:** One gallon of Coal Tar Concentrate will cover approximately 6.7 to 8.3 square yards when mixed and applied in accordance with P-631 specifications for sand slurry coat.

**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 Coal Tar Concentrate. Keep Out Of Reach Of Children. Do not store unopened drums or pails in freezing temperatures.

### 6. AVAILABILITY & COST

**Availability:** SealMaster Coal Tar Concentrate 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 SealMaster Coal Tar Concentrate applicator. Contact SealMaster for the Coal Tar Concentrate representative in your area.

### 7. WARRANTY

SealMaster warrants that SealMaster Coal Tar Concentrate 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.

**Professional Applicators:** Your local SealMaster Coal Tar Concentrate 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](http://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 workman-ship, 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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