

PRODUCT DESCRIPTION & BENEFITS

AsPen[®] Surface Seal is a clay-stabilized, mineral filled asphalt emulsion surface sealer featuring a unique combination of asphalt cement, surfactants and specialized clay designed as a high performance surface treatment for asphalt pavements.

AsPen[®] protects and extends the useful pavement life by replacing the vital surface oils, locking down the loose aggregates and preventing damage caused by oxidation, weather, and traffic. AsPen[®] is an ideal choice to maintain residential streets, airports, highway shoulders, asphalt pavements, slurry seal and chip seal surface treatments.

Excellent film integrity, bonding, ultra-violet and fuel resistant properties provide superior protection against traffic, oxidation, and other environmental stresses.

AsPen[®] will not run onto adjacent concrete surfaces, resists traffic scuffing and tracking and retains a dark black non-glare color.

BASIC USES

AsPen[®] is an excellent maintenance strategy for residential streets, airports, highway shoulders and other areas where value and performance are critical. Also ideal for maintaining slurry seal and chip seal surface treatments.

COMPOSITION

AsPen[®] is a clay stabilized asphalt emulsion bituminous surface treatment fortified with adhesion promoters.

SIZES

AsPen[®] is available in bulk tankers, 275-gallon totes, 55-gallon drums, and 5-gallon pails.

COLOR

AsPen[®] dries to a deep, rich black color.

LIMITATIONS

Ambient and surface temperature must be at least 55°F and rising during application.

ENVIRONMENTAL CONSIDERATIONS

AsPen[®] contains no cutbacks, solvents, flammables, or coal tar. Contains less than 10 g/l VOC (< 1%)

TABLE 2 - ENVIRONMENTAL PROPERTIES		
PAH Content (Percentage)	Polycyclic Aromatic Hydrocarbon Content (Percentage)	Less than one-tenth of 1% (< .10%)
Volatile Organic Compounds (VOC)	Determination of Volatile Organic Compounds (VOC) in Coatings	Less than 10 g/l (< 1%)

TABLE 1 - PHYSICAL PROPERTIES OF ASPEN AS SUPPLIED

TEST	METHOD	SPECIFICATION	RESULT
EMULSION:			
Uniformity	ASTM D 2939.05	Product shall be homogeneous and show no separation or coagulation that cannot be overcome by moderate stirring.	PASS
Viscosity, Krieb Units	ASTM D 562	60-110 KU	PASS
Specific Gravity @ 60°F	ASTM D 2939.07	> 1.13	PASS
VOC Content by Volume %	ASTM D 244-89	< 10 g/l (< 1%)	PASS
RESIDUE:			
By Evaporation, %	ASTM D 2939.08	44% Min.	PASS
Flash Point, °F	ASTM D 93	450 Min.	PASS
Softening Point, °F	ASTM D 36	180°F Min.	PASS
PERFORMANCE TESTING:			
Resistance To Heat	ASTM D 2939.14	No sagging or slipping beyond the initial reference line after 212°F exposure for 2 hours.	PASS
Resistance To Water	ASTM D 2939.15	No blistering or re-emulsification after 24 hour submersion in water.	PASS
Wet Flow	ASTM D 2939.19	No flow beyond initial reference line.	PASS
Direct Flame Test	ASTM D 2939.20	No continued combustion or slippage and run-down.	PASS
Wet Film Continuity	ASTM D 2939.22	A uniformly homogeneous consistency.	PASS
Resistance To Kerosene	ASTM D 2939.25	No evidence of leakage of kerosene, loss of adhesion and discoloration of tile.	PASS
Wet Track Abrasion	ISSA (TB-100)	Calculated weight loss, percentage of original volume. 1% Max.	PASS
Accelerated Weathering	ASTM G 154	UVA-Weatherometer no cracking, chipping, surface distortion or loss of adhesion. No color fading or lightening.	PASS

AsPen®

Surface Seal

SMT-140

REVISED 05/05/17

INSTALLATION

- Surface cracks must be clean and free from loose debris, dirt and dust.
- Cracks should be sealed with approved crack sealants.
- AsPen® is designed to be applied with standard sealcoat spray equipment. At the ideal application rate, the applied material should completely soak into the pavement without leaving puddles of excess material. AsPen is a single coat process.

MIXING PROCEDURES

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

AsPen 100 gallons
 Water..... 50 gallons

APPLICATION RATE

Apply properly mixed AsPen® at a rate of .12 to .18 gallons per square yard (50-75 square feet per gallon). Ultimate coverage will depend upon pavement age and porosity. AsPen® is applied as a one coat application.

Application Rate over Chip Seal: Apply properly mixed AsPen® at a minimum of .2 gallons per square yard (45 square feet per gallon) over chip seal surfaces.

Drying Time: Allow AsPen® to dry thoroughly before resuming traffic. Under ideal conditions (70°F 50% relative humidity), AsPen® will typically dry in less than 2 hours. Lower surface and ambient temperatures may result in longer drying times.

ESTIMATING MATERIAL REQUIREMENTS

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

One gallon of AsPen® will cover approximately 75 to 115 square feet per gallon (8.33-12.77 square yards per gallon). Actual coverage rate may vary due to pavement age and porosity.

Over chip seal, one gallon of AsPen® will cover approximately 67 square feet (7.44 square yards) per coat when properly mixed and applied.

Precautions: Both surface and ambient temperature shall be a minimum of 55°F and rising during application. Temperature shall not drop below 55°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 AsPen®. Keep Out Of Reach Of Children. Do not store unopened drums or pails in freezing temperatures.

PACKAGING AND AVAILABILITY

AsPen® is available in 5-gallon pails, 55-gallon drums and bulk tanker load quantities. AsPen® is supported by a national network of SealMaster manufacturing facilities along with a national network of qualified applicators.

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 only. The manufacturer expressly disclaims any implied warranties of merchantability or fitness for a particular purpose.



Phone: 1-800-395-7325

www.sealmaster.net