

OPTIPAVE

Surface Seal

SMT-215

REVISED 04/06/23

PRODUCT DESCRIPTION & BENEFITS

OptiPave™ Surface Seal is a Ready-To-Use clay stabilized asphalt emulsion featuring a unique combination of asphalt cement and specialized clay designed as a high performance surface treatment for asphalt pavements. OptiPave Surface Seal meets ASTM D8099/D8099M-17 Standard Specification for Asphalt Emulsion Pavement Sealer.

OptiPave™ 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. OptiPave™ 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.

OptiPave™ will not run onto adjacent concrete surfaces, resists traffic scuffing and tracking and retains a dark black non-glare color.

USES

OptiPave™ 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

OptiPave™ is a clay stabilized asphalt emulsion bituminous surface treatment fortified with adhesion promoters.

SIZES

OptiPave™ is available in bulk tankers, 275-gallon totes, 55-gallon drums, and 5-gallon pails.

COLOR

OptiPave™ dries to a deep, rich black color.

LIMITATIONS

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

ENVIRONMENTAL CONSIDERATIONS

OptiPave™ contains no cutbacks, solvents, flammables, or coal tar. Contains less than 10 g/l VOC (< 1%)

Table 1 - 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 2 - Physical Properties Of Optipave As Supplied

ASTM	Test Description	Result
D2939-5	Uniformity	PASS
D562	Viscosity, Kreb Units	60-110 KU
D2939-7	Density at 25°C [77°F], b/mL [lbs/gal]	8-9 lbs./gal.
D244-89	VOC Content by Volume %	< 10 g/l
D2939-8	Residue by Evaporation %	30-50%
D36	Softening Point, °F	> 200° F
D2939-14	Resistance to Heat	PASS
D2939-15	Resistance to Water	PASS
D2939-19	Wet Flow	PASS
D2939-20	Direct Flame Test	PASS
D2939-22	Wet Film Continuity	PASS
D2939-25	Resistance to Kerosene	PASS
ISSA (TB-100)	Wet Track Abrasion	< 5 g/ft² loss
G154	Accelerated Weathering	PASS
D95	Water Content, %	50-70%
D2939-10	Ash Content of Residue, %	12-20%
D2939-13	Drying Time, Firm Set, h	2-6 hrs.
D2939-16	Flexibility - no flaking, cracking, or loss of adhesion to the substrate	PASS

INSTALLATION

IMPORTANT - Do not apply OptiPave to smooth pavement. In order to maintain proper vehicle traction, OptiPave should only be applied to pavement with sufficient porosity (roughness and profile) in order to maintain proper traction. OptiPave depends on the existing roughness and profile of the pavement to maintain traction. OptiPave is designed to be sprayed in a single coat application only at a rate that maintains the existing porosity of the pavement. Do not squeegee apply OptiPave. Do not over apply OptiPave. Do not apply more than the recommended coverage rate.

- Surface cracks must be clean and free from loose debris, dirt and dust.
- Cracks should be sealed with approved crack sealants.
- OptiPave™ is designed to be applied by computer rate control asphalt spreader or standard sealcoat spray distributor trucks. Hand spray wands and brushes may be used for smaller areas and trim.

OPTIPAVE Surface Seal

SMT-215

REVISED 04/06/23

MIXING PROCEDURES

OptiPave™ is Ready-To-Use. DO NOT DILUTE.

APPLICATION RATE

Apply OptiPave™ 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. OptiPave™ is provided Ready-To-Use; DO NOT DILUTE. OptiPave™ is applied as a one coat application. Do not apply two coats. Do not exceed recommended coverage rates. Do not puddle or leave excess material on surface. OptiPave is designed to penetrate the pores of the asphalt while maintaining the pavement profile for traction.

Application Rate over Chip Seal: Apply OptiPave at a rate of .18 to .2 gallons per square yard (45-50 square feet per gallon) over chip seal surfaces. OptiPave™ is applied as a one coat application. Do not apply two coats. Do not exceed recommended coverage rates. Do not puddle or leave excess material on surface. OptiPave is designed to penetrate the pores of the asphalt while maintaining the pavement profile for traction.

Drying Time: Allow OptiPave™ to dry thoroughly before resuming traffic. Under ideal conditions (70°F 50% relative humidity), OptiPave™ 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 OptiPave™ required to cover a specific area use the following coverage rate: One gallon of OptiPave™ will cover approximately 5.55 to 8.33 square yards per gallon (50-75 square feet per gallon). Actual coverage rate may vary due to pavement age and porosity.

When applying over chip seal, one gallon of OptiPave will cover approximately 5 to 5.5 square yards per gallon (45-50 square feet per gallon).

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 OptiPave™. Keep Out Of Reach Of Children. Do not store unopened drums or pails in freezing temperatures.

PACKAGING AND AVAILABILITY

OptiPave is available in 5-gallon pails, 55-gallon drums and bulk tanker load quantities. OptiPave 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.

Copyright © InFrasys, Inc. All rights reserved. Reproduction of any of this material is strictly prohibited.



Phone: 1-800-395-7325

www.sealmaster.net