

MASTERSEAL ULTRA PAVEMENT SEALER

Factory Blended with Water, Aggregate
and Polymer Additive

PRODUCT DESCRIPTION & BENEFITS

MasterSeal Ultra Pavement Sealer is a clay-stabilized, asphalt emulsion pavement sealer designed to protect and beautify asphalt pavement. MasterSeal Ultra is a ready to apply material that is factory blended with water, aggregate and polymer, providing a highly durable slip-resistant coating. MasterSeal Ultra Pavement Sealer meets ASTM D8099/D8099M-17 Standard Specification for Asphalt Emulsion Pavement Sealer.

RECOMMENDED USES

MasterSeal Ultra is ideal for protecting and beautifying all types of pavement surfaces including parking lots, shopping malls, airports, driveways, roadways and more.

ESTIMATING MATERIAL REQUIREMENTS

One gallon of MasterSeal Ultra will cover approximately 70 - 82 square feet per gallon per coat (7.75 – 9.1 square yards per gallon per coat).

TABLE I - CONT.

ASTM	TEST DESCRIPTION	RESULT
D2939-26	Resistance to Impact- No Chipping, Cracking or Delamination	PASS
D2939-10	Ash Content of Residue, %	60-68%
D2939-14	Resistance to Heat- No Blistering, sagging or slipping	PASS
D2939-15	Resistance to water- No softening, delamination or re-emulsification	PASS
D2939-16	Flexibility- No Cracking or Delamination	PASS
D2939-26	Resistance to Impact- No Chipping, Cracking or Delamination	PASS
D2939-22	Wet Film Continuity	PASS
D95	Water Content, %	35-55%
D2939-27	Resistance to Impact After Accelerated Weathering	PASS
D4799	QUV UV Aging-1,000 Hours	No Color Fade
D3359	Measuring Adhesion by Tape- No More than a Trace of Peeling	PASS
Volatile Organic Compounds	Determination of Volatile Organic Compounds (VOC) in various Coatings	< 10 g/l
PAH Content (Percentage)	Polycyclic Aromatic Hydrocarbon Content (Percentage)	Less than one-tenth of 1% (< .10%)

APPLICATION RATE

Apply MasterSeal Ultra at a rate of 70 – 82 square feet per gallon per coat (7.75 – 9.1 square yards per gallon per coat). Application rates may vary due to pavement porosity and method of application.

PERFORMANCE CHARACTERISTICS SURFACE PREPARATIONS

Surface must be clean and free from loose material and dirt. Cracks should be filled with SealMaster Cold or Hot-Applied Crack Filling Materials. Oil stains should be cleaned and primed with SealMaster Oil Spot Primer.

APPLICATION EQUIPMENT

MasterSeal Ultra shall be applied by mechanical squeegee/brush equipment or spray equipment capable of spraying coatings with sand. Equipment shall have continuous agitation or mixing capabilities to maintain homogeneous consistency of mixed material throughout the application process. Truck mount or self-propelled squeegee/brush equipment shall have at least 2 squeegee or brush devices (one behind the other) to assure adequate distribution and penetration of MasterSeal Ultra into bituminous pavement. Hand squeegees and brushes shall be acceptable in areas

TABLE I - PHYSICAL PROPERTIES OF MASTERSEAL ULTRA

ASTM	TEST DESCRIPTION	RESULT
D5	Penetration of Bituminous Materials-Base Asphalt	12-45 Pen
D6937	Density of Emulsified Asphalt	1,000 -1300 g/l
D113	Ductility of Bituminous Materials-Base Asphalt	5-15 cm
E70	PH of Aqueous Solutions with Glass Electrodes	6-10 PH
D6378	Vapor Pressure (VPX), mm Hg @ 25° C (77° F)	22-26 mm Hg
D36	Softening Point of Emulsion Residue (Ring and Ball Apparatus)	> 200° F
D93	Flash Point of Liquid Emulsion	> 450° F
D562	Viscosity using a Stormer-Type Viscometer	65-110 KU
D4060	Abrasion Resistance- Taber Abraser Dry Method	< 1% Loss
D522	Mandrel Bend Test of Attached Coatings	No Cracking
D870	Water Resistance of Coatings using Water Immersion	No Delamination
D6904	Resistance to Wind-Driven Rain	No Delamination
D4585	Water Resistance of Coatings Using Controlled Condensation	No Delamination
D1735	Water Resistance of Coatings Using Water Fog Apparatus	No Delamination
D2247	Water Resistance of Coatings in 100% Relative Humidity	No Delamination
D4541	Adhesion Strength over Asphalt Pavement	> 200 PSI
D3910-6.4	Wet Track Abrasion Test	< 5 g/ft ² Loss
D2939-5	Uniformity of Emulsified Bituminous Coatings	PASS
D2939-7	Weight per Gallon	10-11 lbs./gal
D2939-8	Residue by Evaporation, %	45-65%
D2939-13	Drying Time- 50% humidity, 73.4 ± 3.6°F	2-6 hrs.

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SMT-153

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where practicality prohibits the use of mechanized equipment.

MIXING PROCEDURES

Mix MasterSeal Ultra thoroughly before applying. If needed, a small amount of water may be added to facilitate application.

APPLICATION PROCEDURES

For optimum performance and durability apply a minimum of two coats of MasterSeal Ultra. A third coat may be applied to high traffic areas such as parking lot entrances, exits and drive lanes for added durability. Allow each coat to dry thoroughly before applying successive coats. Allow final coat to dry for 24 hours prior to opening to vehicle traffic.

APPLICATION WEATHER CONDITIONS

MasterSeal Ultra shall not be applied when temperature is expected to drop below 50° F during application and for a period of at least 24 hours after application. Do not apply if rain is imminent or forecast within 12 hours.

LINE STRIPING AND TRAFFIC MARKINGS

Use SealMaster Traffic Paints for line striping and traffic markings.

PACKAGING AND AVAILABILITY

MasterSeal Ultra is available for plant pick up or bulk tanker load quantities. MasterSeal Ultra is supported by a national network of SealMaster manufacturing and distribution 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.



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