

# MasterSeal™ MTR



## TIRE RUBBER MODIFIED SEALCOAT

Modified with terminal blended recycled tire rubber for superior U.V. protection, flexibility, adhesion, durability, and color retention.



**Product Description:**

MasterSeal MTR is high-performance, asphalt emulsion sealcoat formulated with high quality asphalts (modified with terminal-blended, whole scrap-tire rubber), select mineral fillers and aggregates. MTR is environmentally friendly and safe, contains no solvents, cutbacks or coal tars. MTR dries to form a dark-black, durable and slip resistant coating that gives a like-new appearance and years of protection to asphalt pavements where performance, value and environmental concerns are critical.

**Surface Preparation:** Prior to application, pavement must be free of embedded and loose dirt, dust, and foreign materials. If traditional cleaning methods are not effective, the contractor may use a power washer or a primer coat of diluted SS-1h emulsion. Pavement repairs should be made and cracks 1/4" and larger should be sealed with hot or cold crack sealants. All grease and oil spots should be treated with PrepSeal or PetroSeal.

**Application Guidelines:** New asphalt pavements should not be sealed until after they have been exposed to a full summer heat cycle. Ambient and surface temperatures must be 55°F and rising during application. Do not apply if raining or rain is forecast within 24 hours of application. Restrict irrigation water and other occasional water from the sealcoat for 72 hours after application. Pavement surface should be misted with water during application in extremely hot temperatures (90 degrees and above). Two coats are recommended. The first coat must be completely dry prior to applying the second coat. A third coat may be applied in heavy traffic areas. Allow the sealcoat to dry overnight before resuming traffic. Drying times to resume traffic are determined by the contractor based on temperatures, humidity and other factors.

**Material Requirements & Application Rates:** One gallon of MTR Concentrate will cover 60-90 square feet per coat. Application rates of properly mixed MTR is 50-60 square feet per coat or .15-.18 gallons per square yard. Coverage rates vary depending on pavement

condition, traffic volume and other factors. MTR may be applied by hand spray/squeegee, mechanical spray tankers or squeegee machines. Application units should be equipped with mechanical agitators to maintain consistency of the mixed material during application.

**Mix Designs:** MTR is manufactured with approximately 3 pounds of aggregate per gallon. Additional aggregate may be added by the contractor on site to meet specific job requirements based on pavement surfaces, traffic volume, and weather conditions, etc. Should the contractor recommend additional aggregate, up to 2 lbs./gallon may be added. TopTuff polymer should be added at the rate of 2% of the concentrate for aggregate amounts exceeding 2 lbs./gallon. The following mix design is based on 100 gallons of MTR concentrate for ease of calculations:

- MasterSeal MTR concentrate: 100 gals.
- Water (Clean-Potable): 20-25 gals.
- Sharp Shot (30-60 mesh) black aggregate: 100-200 lbs.

Mix thoroughly to maintain homogeneous consistency prior to and during application.

**Clean Up:** Wash tools in water. Use TarBuster if material has dried.

**Caution:** KEEP OUT OF REACH OF CHILDREN. Do not take internally. If swallowed, call a physician immediately. In case of contact with eyes, flush immediately with water for 15 minutes and call a physician. When not in use, keep containers tightly closed and upright to prevent leakage.

**Warranty:** The statements made on this technical bulletin are believed to be true and accurate, and are intended to provide a guide for approved construction practices. SealMaster® does not make, nor does it authorize any agent or representative to make any warranty, express or implied, concerning this material as workmanship, weather, construction, equipment utilized and other variables affecting results are all beyond our control. SealMaster® 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. In no event shall SealMaster® be liable for any injury, loss or damage, either direct or incidental, special or consequential, however arising, in connection with material or equipment furnished or work performed. SealMaster® shall not, in any manner, be liable for any defects, variations or change in condition in the substructure over which its products are installed.

**Every 1,000 gallons of MasterSeal MTR removes 18 scrap tires from our environment!**

TEST	TEST METHOD	STANDARDS	RESULTS
<b>EMULSION:</b>			
• Uniformity - Product shall be homogeneous and show no separation or coagulation that cannot be overcome by moderate stirring.	ASTM D 2939.05	PASS	PASS
• Weight/gallon @ 77°F - Weight/gallon of concentrate range 10.4-10.8 lbs./gallon.	ASTM D 2939.07	9 lbs./gallon	10.6 lbs./gallon
• VOC Content by Volume - Maricopa County Air Pollution Control Regulations - Control of Air Contaminants Rule 340 section 301.3	ASTM D 244-89	3%	.47% by volume
<b>RESIDUE:</b>			
• Tire Rubber Content (residue)	Terminal Certification	10% Min.	10% Min.
• Residue by Evaporation, % - Residue by evaporation percentage range 50-55%.	ASTM D 2939.08	50% Min.	52.8% Min.
• Softening Point, °F (residue)	ASTM D 2939	250	300+
• Flash Point, °F (residue)	ASTM D 93	450	600+
• Cone penetration	ASTM D 217	340-700 mm	PASS
<b>PERFORMANCE BASED TESTING:</b>			
• Resistance to Heat - No sagging or slipping of film beyond the initial reference line after 212°F exposure for 2 hours.	ASTM D 2939.14	PASS	PASS
• Resistance to Water - No blistering or re-emulsification after 24 hour submersion in water.	ASTM D 2939.15	PASS	PASS
• Wet Flow - No flow beyond initial reference line.	ASTM D 2939.19	PASS	PASS
• Direct Flame Test - No continued combustion or slippage and run-down.	ASTM D 2939.20	PASS	PASS
• Wet Film Continuity - A uniformly homogeneous consistency.	ASTM D 2939.22	PASS	PASS
• Resistance to Kerosene - No evidence of leakage of kerosene, loss of adhesion and discoloration of tile.	ASTM D 2939.25	PASS	PASS
• Wet Track Abrasion Test - Calculated weight loss, gms/sq. ft.	ASTM D 3910	5 gms/sq. ft. Max.	1.97 gms/sq. ft.
• Accelerated Weathering Test - UVA-Weatherometer - No cracking, chipping, surface distortion or loss of adhesion. No color fading or lightening.	ASTM G 154	PASS (450 hrs)	PASS (1200 hrs.)



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