

TRMSS (Tire Rubber Modified Surface Sealer)



High Performance Asphalt Sealer

Applies as Easily as a Fog Seal

Easy to Apply Surface Sealer, Environmentally Safe, Long Lasting

TRMSS is a tire rubber modified, asphalt emulsion surface sealer which applies as easily as any standard fog seal system, yet provides wear and weather resistance superior to that of any other sealer.

TRMSS protects and extends the life of any asphalt surface by sealing and locking in the existing asphalts, oils and aggregates of the pavement surface.

The secret is a unique “Terminal Blend” process that fully incorporates recycled tire rubber in to asphalt cement and emulsifies it.

Easy to Apply

- **Ready to use** – No dilution or heating required.
- **Apply with Standard Spreader Trucks** – No special equipment required.
- **Quick Traffic** – Quick breaking emulsion allows traffic flow within 90 minutes. (Under ideal weather conditions)
- **Stable** – The emulsion has excellent storage stability and can be handled at any temperature. Once applied and dry, it will not re-emulsify when exposed to water.
- **Will Not Flow** – As a Thixotropic* emulsion, TRMSS will not run or flow as it is sprayed onto the asphalt pavement, even at application rates up to 0.25 gallon per yard.

*The viscosity does not change with temperature.



Environmentally Safe

TRMSS contains no solvents, cutbacks, flammables, or coal tar. It does contain a minimum of 10% recycled tire rubber. Every 1,000 gallons of TRMSS contains at least 18 recycled tires.

Long Lasting

TRMSS has demonstrated excellent resistance to weathering, UV degradation, oxidation¹, traffic scuffing and wear².

¹ Roofing Industry Weathering Test

² ISSA slurry Wet Track Abrasion Test and High Softening Point Values

Restore, extend and toughen your asphalt projects with TRMSS

Call us at 314-219-7305 or send us an email at sales@missouripetroleum.com
for more information

TRMSS – Another Long Lasting, Environmentally Sustainable Product From Wright Asphalt and Manufactured By Bi-State Emulsions

Wright Asphalt has used over 158 million pounds of tire rubber in its various products. That's over 11 million tires (and counting) kept out of landfill.



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TEST	Specification
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Treated Base Asphalt Characteristics (prior to emulsification)

Tire Rubber Content	%	10% minimum
Flash Point, °F	ASTM D 93	>550
Softening Point, °F	ASTM D 36	>130
Penetration, 77 °F, dmm	ASTM D 5	12-30
Solubility, %	ASTM D 2042	>98.5

Emulsions Characteristics

Uniformity	ASTM D 2939.05	PASS
Product shall be homogenous and show no separation or coagulation that cannot be overcome by moderate stirring.		
Viscosity, Krieb Unit (KU)	ASTM D 562	35 to 85
Viscosity, Centipoise (cP)	(conversion within Krebs Unit tester)	350-850
Specific Gravity	ASTM D 2939.07	Report
Residue by Evaporation	ASTM D 2939.08	>33.0%

Residue Characteristics

Softening Point, °F	ASTM D 36	>250
Residue acquired through ambient evaporation		
<ul style="list-style-type: none"> Softening Point ring filled with an excess meniscus of TRMSS emulsion, Sample Allowed to cure at ambient temperature for 20 hours, 		
OR		
<ul style="list-style-type: none"> Sample is evaporated within the Softening Point Ring under the criteria of ASTM D 2939.08 @ 190-200 °F Resulting residue is tested under the ASTM D 36 standard criteria. 		

Performance Based Testing

Resistance to Heat	ASTM D 2939.14	PASS
*No sagging or slippage of film beyond the initial reference line after 212°F exposure for 2 hrs.		
Resistance to Water	ASTM D 2939.15	PASS*
No blistering or re-emulsification after 24 hr submersion in water.		
Wet Flow	ASTM D2939.19	PASS*
No flow beyond initial reference line.		
Direct Flame Test	ASTM D 2939.20	PASS*
No continued combustion or slippage and run-down.		
Wet Film Continuity	ASTM D 2939.22	PASS*
A uniformly homogeneous consistency.		
Resistance to Kerosene	ASTM D 2939.25	PASS*
Report any evidence of leakage of kerosene and discoloration of tile under the sealer membrane.		
Wet Track Abrasion Test	ISSA (TB-100)	<1.5%
1/16" wet membrane application, 140 degree 24 hour cure, 1 hour water soak, 1,500 gm rubber hose 5 minute scrub, calculated weight loss, percentage of original volume.		

Accelerated Weathering Test ASTM G 154 PASS @ 1,000 hours
No cracking, chipping, surface distortion or loss of adhesion. No color fading or lightening.

1,000 hours, UVA-340 lamp, 0.77 W/m² (v1.0 calibration), 8 hours UV light @ 50°C, 5 min. spray, 3:55 hours, condensation @ 50°C.

* When testing the TRMSS surface sealer a ceramic tile panel can be incorporated in place of the metal panels. The ceramic tile panel preparation will be in accordance with Test Methods D 2939-25.1.1 guidelines:

Unglazed ceramic tiles, white, non-vitreous, dust-pressed body with an absorption range of 10 to 18% (determined in accordance with Test Methods C 67) 150mm by 150mm (6 by 6 inch) by 9.5 to 13mm (3/8 to 1/2 inch) in thickness to accommodate the mask.

**Eco-Friendly
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1620 Woodson Road
St. Louis, MO 63114
314-219-7305 (p)
314-991-9624 (f)
www.missouripetroleum.com