

## Tire Rubber Modified Surface Sealer

### 1. PRODUCT NAME TRMSS®

### 2. MANUFACTURER

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- **Extends Road Lifecycle:** TRMSS tightly seals the voids in the asphalt surface which locks in the fine aggregate, protecting the road from water intrusion, UV degradation and the damage caused by weathering.
- **Superior Surface Bond:** TRMSS is composed of a tough yet pliable proprietary asphalt resin blend, which ensures a permanent bond to the asphalt pavement and eliminates bleeding or tracking.
- **Flat Black, Non-Glare Finish:** TRMSS is enriched with carbon black pigment from 10% recycled rubber tires, which helps maintain the flat black finish, also promoting faster snow and ice melt.
- **Environmentally Beneficial:** 20 post-consumer rubber tires are recycled per one thousand gallons of TRMSS manufactured.

### 3. PRODUCT DESCRIPTION

TRMSS is an asphalt emulsion composed of a proprietary blend of asphalt resin reinforced with 10% recycled rubber tires formulated as a protective coating for asphalt roads.

#### Packaging:

Bulk shipments made in tank trucks. Also available in 260 gal. disposable totes and 55 gal. steel drums.

#### Color:

As a liquid, TRMSS is brown and dries to a flat black, non-glare finish.

#### Basic Uses:

TRMSS is a protective asphalt sealant that offers long term preservation for streets, roads and highways, extending their lifecycle by shielding the asphalt pavement from the destructive effects of UV oxidation and water penetration.

#### Composition:

TRMSS is an asphalt emulsion fortified with recycled tires. This binder base is emulsified in our proprietary high temperature, high shear, state-of-the-art manufacturing process, creating a homogeneous coating capable of providing an exceptionally tough, water resistant surface.

#### Limitations:

In the liquid state, protect TRMSS from freezing. Do not store where temperature exceeds 120°F.

### 4. INSTALLATION

#### Preparatory Work:

The asphalt surface must be structurally sound, surface cured and free from all foreign matter. Localized pavement failure should be repaired and structural cracks should be sealed prior to the application of TRMSS.

#### Methods:

TRMSS can be applied by positive displacement airless spray or distributor trucks with a spray bar height of 12"-14" above ground using a #2 spray nozzle. Equipment must be capable of supplying a sufficient quantity of material to provide a uniformly coated surface. A hand-spray wand or brush is recommended for trim work only.

#### Mix Design:

TRMSS is ready to use. **Do not dilute. Do not heat.**

#### Application:

Depending on the type of asphalt surface, the following application rates are recommended for best results:

#### Application Rate Over New Hot Mix Asphalt

TRMSS	Gal/SY	Gal/SF
	.08 - .12	.009 - .014

#### Application Rate Over Aged Hot Mix Asphalt

TRMSS	Gal/SY	Gal/SF
	.12 - .20	.014 - .022

#### Application Rate Over Micro Surface

TRMSS	Gal/SY	Gal/SF
	.15 - .25	.017 - .028

#### Application Rate Over Chip Seal

TRMSS	Gal/SY	Gal/SF
	.18 - .30	.020 - .033

Application must be made when ambient and pavement temperatures are 50°F or above within the following 48 hours. Do not apply when rain is imminent. Night time application is not recommended. Lower temperatures, high humidity, clouds or shade, and lack of air movement will delay drying.

The area sealed with TRMSS can be opened to traffic after trial shows it to be dried. There is no additional curing time required. Under ideal drying conditions, road may be opened to traffic in as little as 30 minutes after application.

#### Precautions:

Application of this product in marginal weather conditions will result in premature wear.

New asphalt pavement should be allowed to cure for a minimum of 30 days prior to the application of TRMSS and must not exhibit ribboning, crawling, nor show oil rings when 1 gal. of clean water is poured onto the surface.

TRMSS is not recommended for use on portland cement concrete roads.

TRMSS is not suitable for roadways with wheel ruts or very low skid data reports. TRMSS is not recommended for parking lots or residential driveways and is not a crack filler or a cure for severely deteriorated pavements.

Keep out of reach of children. Container should be closed when not in use. Contains petroleum distillates. Avoid breathing vapor or prolonged contact with skin or eyes. Flush immediately with water.

Consult specific Neyra material safety data sheet before use.

## 5. MAINTENANCE

TRMSS is a cationic emulsion. To prevent contamination, clean and flush application unit tank, pump and spray bar with hot water prior to use.

Storage tank also must be clean and free of any foreign materials, as well as have the ability to mix or circulate material during long periods of storage.

## 6. TECHNICAL DATA

### **Environmental Considerations:**

TRMSS is considered non-hazardous when tested according to the EPA's TCLP (Toxicity Characteristic Leaching Procedure). TRMSS is a water based material containing 0g/L (0.00 lbs./gal.) VOC content.

### **Applicable Standards:**

TRMSS meets the composition and performance standards referred to on the opposite chart.

## 7. TECHNICAL SERVICES

Material safety data sheets, product and application recommendations, as well as assistance with special situations and field service are available upon request. Special project submittals are available through Customer Service.

## 8. WARRANTY

The above specifications on product usage are believed to be true and accurate. Neyra Industries, Inc. guarantees that all materials manufactured comply with quality standards as described in

## COMPOSITION AND PERFORMANCE REQUIREMENTS

Specification	Test	Results
<i>Treated Base Asphalt Characteristics (prior to emulsification)</i>		
	Tire Rubber Content, %	10% minimum
ASTM D93	Flash Point, °F	>550
ASTM D36	Softening Point, °F	>130
ASTM D5	Penetration, 77°F, dmm	12-30
ASTM D2042	Solubility, %	>98.5
<i>Emulsion Characteristics</i>		
ASTM D2939.05	Uniformity	Pass
ASTM D562	Viscosity, Krieb Unit (KU)	35 to 85
ASTM D2939.07	Specific Gravity	Report
ASTM D2939.08	Residue by Evaporation	>33.0%
<i>Residue Characteristics</i>		
ASTM D36	Softening Point, °F	>250
<i>Performance Based Testing</i>		
ASTM D2939.14	Resistance to Heat	Pass*
ASTM D2939.15	Resistance to Water	Pass*
ASTM D2939.19	Wet Flow	Pass*
ASTM D2939.20	Direct Flame Test	Pass*
ASTM D2939.22	Wet Film Continuity	Pass*
ASTM D2939.25	Resistance to Kerosene	Pass*
ISSA (TB-100)	Wet Track Abrasion Test	<2.0%
ASTM G154	Accelerated Weathering Test	Pass
*An unglazed ceramic tile panel with an absorption range of 10-18% (determined in accordance with ASTM C67) will be used in place of the metal panels. The ceramic tile preparation will be in accordance with ASTM D2939-25.1.1 guidelines.		

the product data sheets. Because the application, handling, weather, workmanship and equipment are beyond the control of this manufacturer, only the quality of the products as shipped is guaranteed. In no case will the liability of Neyra Industries, Inc. exceed the purchase price of the shipped materials.

## 9. ADDITIONAL INFORMATION

Neyra Industries, Inc. manufactures a full line of asphalt pavement maintenance and recreational surface products as well as application equipment sold and distributed nationally at our plants and through distributors and contractors. To find the supplier most convenient to you, please contact us.

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