TERRA PAVE FOG™

APPLICATION MANUAL

TERRA PAVE

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This manual is intended to assist customers in understanding and working with Terra Pave products for pavements. It describes types of equipment, process and recommendation of aggregates.

EEI Transportation Information Division

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Terra Fog

Terra Fog is a high-quality, eco-friendly, and cost-effective liquid sealant designed to extend the service life of asphalt pavements.
It prevents oxidation, reduces water infiltration, and delays major maintenance like resurfacing and seal coating.

Ideal for restoring worn asphalt on roads, parking lots, and airfields, Terra Fog revitalizes surfaces, enhancing durability and longevity.
It also reinforces chip seals by reducing oxidation, preventing brittleness, and strengthening the wearing surface.
Additionally, as a water-based sealant, it helps control dust and improve surface integrity.

Terra Fog Container

Available in 208 liters (55 gallons) drums and 1041 liters (275 gallon) tote

Totes have a vent bung on the fill cap

Transfer Terra Fog to a Water Truck What You Need:

Bung wrench (to open the container)

Forklift, extenda-boom forklift, or front-end loader (to lift the tote)

Pump (optional but slower)

Steps for Transferring Terra Fog:

1. Check liquid level in the tote using a fuel strapping rod or stick.

2. Remove the vent bung from the tote's lid.

3. Fill the water truck halfway (50%) with water.

4. Lift the tote so the outlet flows directly into the water truck.

5. Add the required amount of Terra Fog.

6. Check liquid level again to ensure the right amount was added.

7. Fill the rest of the truck with water. No mixing is needed – it will mix naturally while driving. (Refer to images for equipment: 9-12 hoses, transfer pump, and spray bar setup.)

How Much Terra Fog is Needed? Metric System

1. Dilution Rate: 6-8 liters of water per 1 liter of Terra Fog.

2. Desired Application Rate: 0.18 liters per square meter (L/m²).

3. Calculation Formula:
   Road Width (m) × Road Length (m) × 0.18 = Liters of Terra Fog needed.

4. Example Calculation:
- Road length = 1,000 meters

- Road width = 7 meters

- 1,000 × 7 × 0.18 = 1,260 liters of Terra Fog

- Water needed = approx. 7560 - 10,080 liters

How Much Terra Fog is Needed? Imperial System

1. Dilution Rate: 6-8 gallons of water per 1 gallon of Terra Fog.

2. Desired Application Rate: 0.040 gallons per square yard

3. Calculation Formula:
   Road Width (yards) × Road Length (yards) × 0.040 = gallons of Terra Fog needed.

4. Example Calculation:
- Road length = 1,000 yards

- Road width = 8 yards

- 1,000 × 8 × 0.040 = 320 gallons of Terra Fog

- Water needed = approx. 1920 - 2560 gallons

How to Apply Terra Fog

Terra Fog can be applied using one of the following methods, depending on the size and scope of the project:

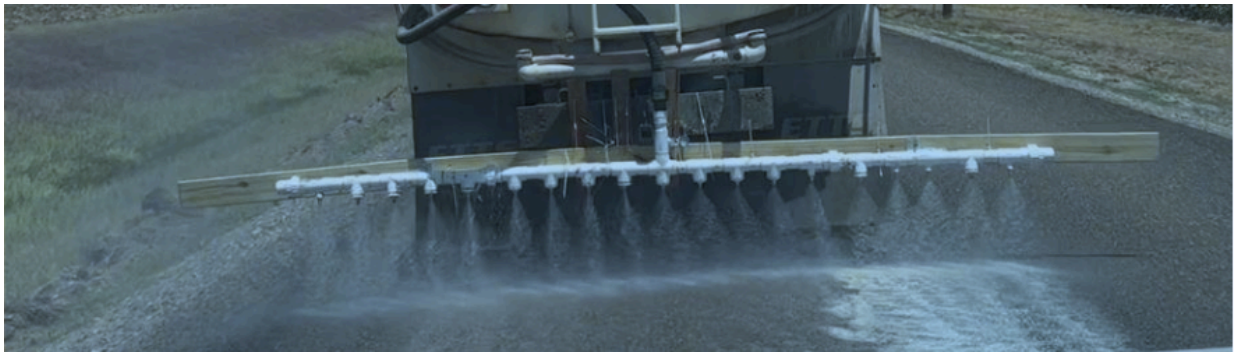
1. Water Truck with Sprayer Bar – Ideal for large-scale applications, ensuring even distribution across the road surface. (see Page 11)
2. Handheld Sprayer – Suitable for smaller areas or targeted applications where precision is required. (see page 12)
3. Manual Application with a Broom - Used for detail work or small projects requiring placement of the product.

Step 1: First Application

1. Thoroughly sweep the road surface to remove loose dirt and debris.
2. Spray the first coat evenly on the road.
3. Ensure the road looks wet without creating puddles or runoff.
4. Allow the first coat to dry for approximately 20 minutes before proceeding to the second application.

Step 2: Second Application

Apply the second coat in the same manner as the first application, ensuring an even distribution without pooling or excessive accumulation of the product.



Final Step: Curing and Asphalt Application

Dry time: Allow 15-20 minutes for the surface to dry before opening to traffic.

Important Notes

- First and second applications should each use half of the total required amount of Terra Fog.
- No extra mixing is needed – Terra Fog fully dissolves in water.
- This simple process ensures a well-sealed, dust-free road. Follow these steps for the best results!

Equipment Clean up and Maintenance After Application

After application, thoroughly clean the water truck or spraying equipment by filling it with fresh water and flushing the system to prevent clogging or equipment damage.

Handling and Storage General Handling:

- Product should be stored indoors in tightly capped drums or containers.
- Stir or rotate the product every three months to prevent excessive settlement of heavier materials.

Storage Temperature:

- Maintain between **45°F to 105°F.**
- **Do not freeze.**
- Proper storage ensures a **shelf life of 9 months.**

Transport Information

International Harmonization Code: 3906.90.00.00 / 2803.00.00.00 – Liquid polymers in primary form.

U.S. D.O.T.: Not regulated.

IMDG: Not regulated.

Exposure Controls/Personal Protection

Eye Protection:

- Safety glasses or goggles, as appropriate.

Protective Gloves:

- Use if extended exposure to hands is anticipated. Polyvinyl gloves are not recommended.

Engineering Controls:

- Product is designed for use in open-air areas. If used in enclosed areas, ensure that adequate ventilation is available.

First Aid Measures

Following inhalation: Remove to a fresh air.

If experiencing breathing problems, contact a physician.

Following skin contact: Wash skin with warm soap and water.

Following eye contact: Immediately flush eyes thoroughly with water.

If experiencing continuing difficulties, obtain medical attention.

Following ingestion: Not determined to be harmful;

however, seek medical attention as a precaution.

TPI SPRAY BAR ASSEMBLY KIT

Center piece (4 ft) and two extensions (3 ft each)

Spray Bar – Technical Summary

Length: Adjustable from **10 ft to 12 ft**. For the test, it was set to **10 ft**.

Construction: Center inlet tee with 2 ft PVC couplings and nozzles on either side.Optional 3 ft attachments can be added to each end using screw-type PVC compression couplings.

Nozzles: Specially designed and spaced **7.5 inches apart** to match the truck's PTO-driven pump output.

Connection Hose: 20 ft long, 2" diameter.

2" female cam-loc at pump end, **2" male cam-loc** at spray bar end.

Pump Outlet Setup:

Truck pump has a 2.5" male cam-loc, redirected with a 90° elbow (2.5" female cam-loc to 2.5" NPT).

Attached: 2.5" NPT coupling + 2.5" x 2" reducer bushing + 2" male cam-loc.

5.5 Hp transfer pump (optional)

Intake hose (Color may vary)

Output hose and connectors

TPI SPRAY BAR IN ACTION

The bar is place low to the surface for better penetration. The spray bar provides a very even distribution of TPI products into the area of coverage. Compared to traditional gravity feed or single outlet distribution systems, the efficiency of the TPI spray bar kit pays for itself from the savings of a much more efficient application of TPI products.

NOTE: As shown in the photo, plastic ties are provided with the spray bar kit to firmly attach the system to any component of the water truck. The spray bar can be removed simply by cutting off the ties.

HAND-HELD SPRAY
BAR BAR
For Small Projects and Tight Spaces

TERRA PAVE

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