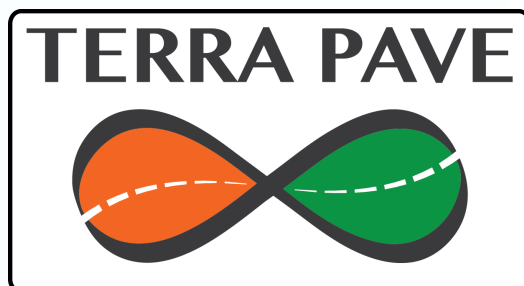


# TERRA PAVE PRIME™

APPLICATION MANUAL



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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.

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# Terra Prime

**Terra Prime** is a water-based binder and sealant used as a primer to enhance asphalt adhesion to the road base and waterproofing sealant.

It forms a strong bonding layer between the road base and asphalt, improving stability and durability.

Formulated for optimal asphalt adherence, Terra Prime contributes to the long-term performance and longevity of the paved surface, making it ideal for asphalt applications on various road base materials.



## **Terra Prime 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 Prime 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 Prime:

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 Prime.
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 Prime is Needed? Metric System**

1. Dilution Rate: 6-8 liters of water per 1 liter of Terra Prime.
2. Desired Application Rate: 0.18 liters per square meter (L/m<sup>2</sup>).
3. Calculation Formula:  
Road Width (m) × Road Length (m) × 0.18 = Liters of Terra Prime needed.
4. Example Calculation:
  - Road length = 1,000 meters
  - Road width = 7 meters
  - $1,000 \times 7 \times 0.18 = 1,260$  liters of Terra Prime
  - Water needed = approx. 7560 - 10,080 liters

## **How Much Terra Prime is Needed? Imperial System**

1. Dilution Rate: 6-8 gallons of water per 1 gallon of Terra Prime.
2. Desired Application Rate: 0.040 gallons per square yard
3. Calculation Formula:  
Road Width (yards) × Road Length (yards) × 0.040 = gallons of Terra Prime needed.
4. Example Calculation:
  - Road length = 1,000 yards
  - Road width = 8 yards
  - $1,000 \times 8 \times 0.040 = 320$  gallons of Terra Prime
  - Water needed = approx. 1920 - 2560 gallons

## **How to Apply Terra Prime**

Terra Prime 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)

### **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**

1. Apply the second coat in the same manner as the first application.
2. Again, the road should look wet but doesn't have puddles and run offs.



## **Final Step: Curing and Asphalt Application**

1. Allow the second coat to fully cure undisturbed for 8 hours before allowing vehicular traffic
2. Ensure the asphalt overlay is applied within 30 days of the Prime coat application to maintain optimal adhesion and performance.



## **Important Notes**

- First and second applications should each use half of the total required amount of Terra Prime.
  - No extra mixing is needed – Terra Prime 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)



5.5 Hp transfer pump (optional)



Intake hose (Color may vary)



Output hose and connectors



### TPI SPRAY BAR IN ACTION

The bar is placed 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

