

TERRA PRIME



# TERRA PRIME<sup>TM</sup> Non-Petroleum-Based Prime Coat

ROADWAYS – PARKING LOTS – AIRFIELDS

## Environment-Friendly and Cost-Effective Prime Coat

**TERRA PRIME<sup>TM</sup>** is an environmentally friendly alternative to asphalt prime coats. **Invented at the University of Texas at Austin (UT Austin), Terra Prime<sup>TM</sup> offers the most cost-effective and risk-free way to improve highways without sacrificing road durability, quality, or stability.** Terra Prime<sup>TM</sup> is an easy-to-use polymer-based emulsion, and it requires no special equipment or handling procedures. **In a series of tests, Terra Prime<sup>TM</sup> outperforms the most widely used alternatives, such as MC-30 and AEP** — both of which emit volatile organic compounds (VOCs) and are at least partially prohibited for use in Ozone Nonattainment Areas, like crowded cities and metropolitan areas.



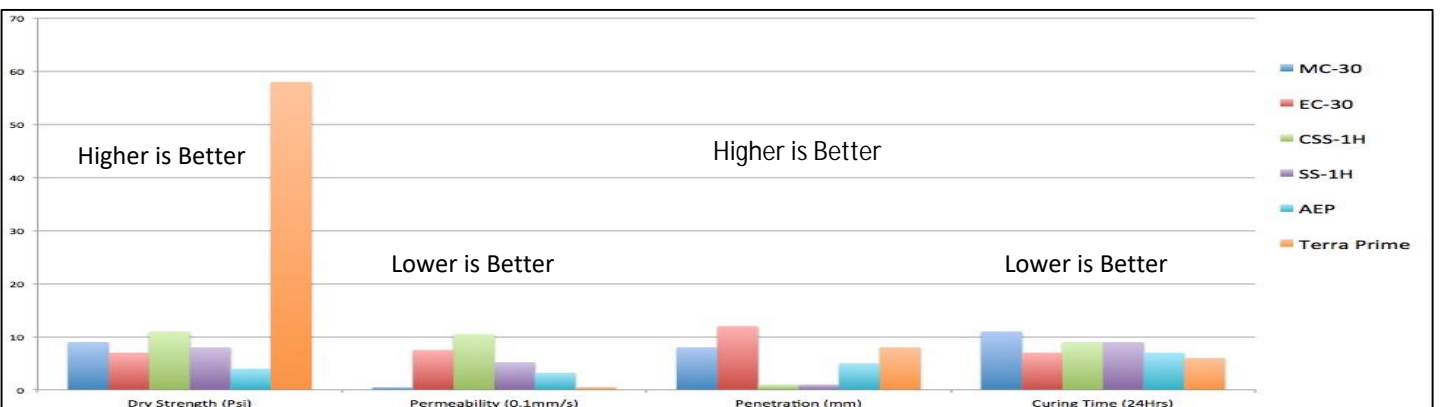
Terra Prime<sup>TM</sup> application in Florence, Texas

**TERRA PRIME<sup>TM</sup> IS TEST-PROVEN.** In extensive trials coordinated by UT Austin and the Texas Department of Transportation (TxDot), Terra Prime<sup>TM</sup> prominently outperformed all known competitor products as a replacement for MC-30, an asphalt primer used worldwide. MC-30 is classified as a cutback asphalt substance and is heavily laden with kerosene, which is environmentally toxic. The Environmental Protection Agency (EPA) classifies cutback asphalt as a volatile organic compound (VOC), placing in a category of substances regulated by environmental agencies worldwide.

The leaching of kerosene into the ground and its evaporation atmosphere have polluted the environment for years. **In addition to environmental concerns, MC-30 poses serious health risks to workers who are exposed directly to its vapors and potential flammability.** Inhalation of asphalt fumes can cause dizziness, headaches, intoxication, and vomiting. These fumes also contain known carcinogens.

Extensive research has revealed that several other products, mostly asphalt emulsion-based, are suitable replacements for MC-30. However, none have proven to be as effective as MC-30—until the arrival of Terra Prime<sup>TM</sup>.

**TERRA PRIME<sup>TM</sup> IS THE BEST REPLACEMENT FOR MC-30.** As shown by the following table, Terra Prime<sup>TM</sup> outperforms competitor products as a replacement for MC-30, and Terra Prime<sup>TM</sup> is much stronger than MC-30 and other alternatives.



TERRA PRIME<sup>TM</sup> VS. COMPETITORS/MC-30

# The Future of Better Roads

**TERRA PRIME™ IS A SAFE, COST-EFFECTIVE REPLACEMENT FOR MC-30.** Texas University research shows that TERRA PRIME™ has the best strength and curing time of all other prime coats materials.

**Terra Prime™** also outperforms competitor products in permeability reduction, providing a permeability coefficient similar to that of MC-30. Additionally, Terra Prime™ achieves the same level of penetration as M-30 while being much more cost-effective than MC-30, as MC-30 is kerosene-based and priced according to crude oil fluctuations.



As a non-petroleum-based prime coat TP™ provides an environmentally-friendly solution to the growing need everywhere for cost-effective roads.

**TERRA PRIME™ IS THE FUTURE OF BUILDING BETTER ROADS.** In today's world, the need to improve transportation infrastructure is felt around the globe. With the current climate of shrinking economies and growing environmental concerns, the pursuit of cost-effective methods for building and improving roads is a high priority for private owners, contractors, municipalities, counties, states, and nations. **Terra Prime™ is the right product for the environment with unmatched performance.**



AEP Prime coat in Florence, Texas: Less than 1 inch penetration



Terra Prime™ in Florence, Texas – More than 4 inches penetration

**ORDERING AND RECEIVING TERRA PRIME™.** Terra Prime™ is manufactured in Central Texas, USA. For most applications, the product is calculated at a rate ranging from 0.04 to 0.1 gal/sq. yd. Terra Prime™ can be ordered in any quantity and can be shipped worldwide. Please contact Terra Pave International for more information.

**For More Information on Products and Business Opportunities, Contact:**

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**TERRA PRIME™ IS SAFE AND EASY TO USE.** It is non-petroleum-based and requires no special equipment or handling procedures. Dilute one part product with five parts water in a holding tank, and then evenly distribute it over the asphalt in two passes. **The process is fast and simple compared to asphalt emulsions that require heating and adherence to strict, time-consuming application procedures.** To ensure that **Terra Prime™** is distributed into the road base efficiently, using a distributor or pressurized spraying system for the application is highly recommended.