

TERRA PRIME™ ~ PRIMER

Primer and Sealant for Asphalt Roads

Invented by the University of Texas at Austin, Patent (Pending)

Non-Petroleum Based

ECO-FRIENDLY, NON-TOXIC, DOT APPROVED TERRA-PRIME™



TERRA-PRIME™, an excellent, environmentally friendly alternative to asphalt prime coats.

TERRA PRIME was invented at the University of Texas at Austin (UT-Austin), and it offers the most cost-effective and risk-free way to improve highways without sacrificing road durability, quality, or stability. **TERRA PRIME** is a polymer-based emulsion that is easy to use, requiring no special equipment or handling procedures.

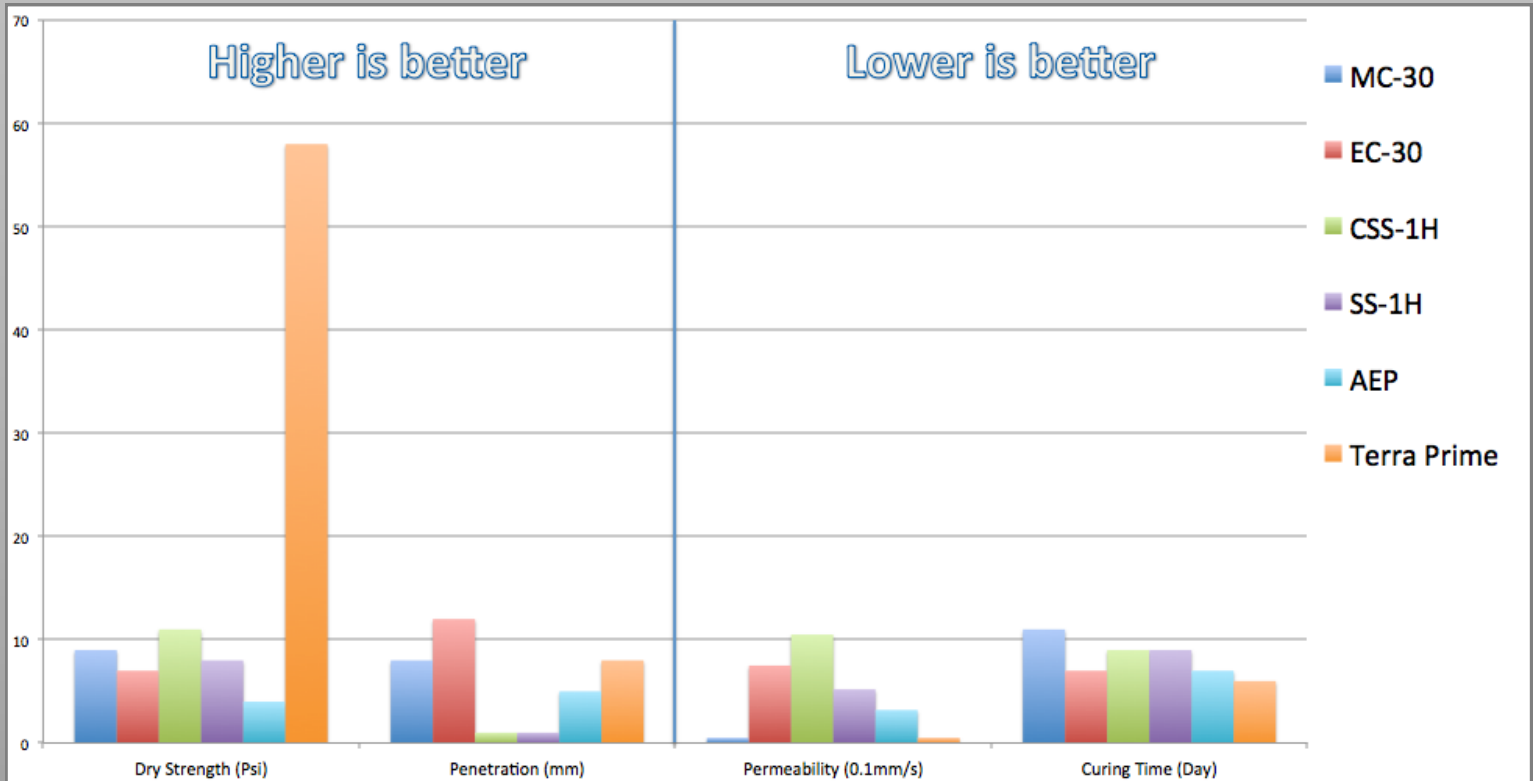
Extensive testing, coordinated by **UT-Austin** and the Texas Department of Transportation (TxDOT), determined that **TERRA PRIME** prominently outperforms all known competitor products as a replacement for MC-30, an asphalt primer that is used worldwide. MC-30 is classified as a cutback asphalt substance that is laden heavily with kerosene, which is environmentally toxic. The EPA classifies cutback asphalt as a “volatile organic compounds” (VOCs), which is closely regulated by environmental agencies worldwide.



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TERRA PRIME is the best replacement for MC-30. As shown in the following table, TP is not only outperforms competitor products as a replacement for MC-30, but also it is much stronger than MC-30 and other alternatives.



TERRA-PRIME™ Non-Petroleum and Eco-Friendly Primer and Sealant for Asphalt Roads

University of Texas at Austin research shows that **TERRA PRIME** has both the greatest strength of all other prime coat materials and the fastest curing time. **TERRA PRIME** also out-performs competitor products in reducing permeability, providing a permeability coefficient similar to that of MC-30. Additionally, TERRA PRIME achieves the same level of penetration as MC-30 while being much more cost-effective, since MC-30 is kerosene-based and, therefore, its cost is dependent on the price of crude oil. A study done by the McCombs School of Business at UT-Austin found that the total price for one lane-mile (1 mile x 12 feet) of MC-30 was \$8,705 in 2011, while the total price for one lane-mile of **TERRA PRIME** was just \$7,744. As a non-petroleum-based prime coat, TERRA PRIME provides an environmentally friendly solution to the growing need for cost-effective roads.

The leaching and evaporation of kerosene into the ground and 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 for replacing MC-30. However, none has proved to be as effective as MC-30 — that is, until the arrival of **TERRA PRIME**.



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