

T-PRO® 400HT TECHNICAL DATA SHEET

1. PRODUCT NAME: T-PRO® 400HT, Soil Stabilizing Polymer

2. MANUFACTURER:

Terratech, Inc.
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Long Beach, CA 90815
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562-494-9565
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3. PRODUCT DESCRIPTION

T-PRO® 400HT is a high-strength latex co-polymer designed specifically for high temperature film formation and arid climates. T-PRO 400HT polymer develops high compressive strength when mixed with soil and provides excellent abrasion resistance when used as a topical seal coat in wear course stabilization. It is highly water resistant when fully cured and stable under wet conditions, like all Terratech polymer products. It does not breakdown or leach and provides long term stabilization of fines in base materials.

4. COMPOSITION:

T-PRO® 400HT is a proprietary blend of high performance polymers and additives designed to bind soil particles into a cohesive matrix. T-PRO 400HT is a unique, environmentally friendly product designed to stabilize soil and create improved surface conditions of unpaved roads. It poses neither physical nor health hazard and is therefore considered non-hazardous according to the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard 29 CFR 1910.1200. The non-hazardous characteristics of the polymer can be classified as:

- Environmentally safe
- Non-leaching or dissipating
- Non-hazardous
- Non-toxic to animals
- Non-inhibitive to plant growth
- Non-flammable
- Non-corrosive
- Non-tracking

5. BENEFITS

T-PRO® 400HT is cost effective and easy to use. The product cures rapidly resulting in minimal traffic interruption for completing road stabilization and repair. The polymer solids are applied in solution and as the water evaporates during curing, the polymer molecules coalesce and form strong bonds between the soil and aggregate particles. The benefits of T-PRO 400 HT include:

- Longer lasting roads
- Less rutting, spalling and raveling of road surface
- Erosion control
- Dust suppression and particulate emission control
- Reduced infiltration and improved run-off
- Increased load bearing capacity
- Increased road smoothness and ride quality

- Decreased wear on vehicles
- Easy to install
- Low-maintenance
- Non-toxic and non-hazardous

6. PACKAGING AND SHIPPING

The polymer can be shipped in 55 gal (206 liter) drums or 258 gal (976 liter) totes. Shipping T-PRO 400HT does not require special handling or permits.

7. HANDLING AND STORAGE

When storing, keep product from freezing and direct sunlight. T-PRO 400HT should be stored in temperatures ranging between 40 degrees F and 110 degrees F (4.4°C and 43.3°C) for best performance and to prevent separation.

8. LIMITATIONS

Product performance is based on vehicular traffic, soil properties, and proper drainage on and adjacent to the road surface. Some soils do not lend themselves to stabilization with polymers and exhibit poor performance in long term applications. Performance criteria should be established at the beginning of the project to delineate limitations of the application as a function of project specific variables. If questions arise, check with Terratech technical department prior to use.

9. CHEMICAL PROPERTIES

Physical Form	Liquid
Color	White
Odor	Characteristic
Flash Point	Not applicable
Vapor Pressure	17 mmHg @ 20°C
Solubility in Water	Miscible in all proportions
pH	6.5 – 9.5
Viscosity	< 500 cSt (estimated)
Total Solids	> 50%
Specific Gravity	0.95 – 1.10
Minimum Film Form Temperature	18° C (65° F)
Particle Size	125 nm

10. ENVIRONMENTAL DATA AND MSDS

T-PRO® 400HT is a water based dispersion of an latex copolymer. It is not classified as a “Hazardous Chemical” as defined by the OSHA Hazard communication standard 29 CFR 1910.1200. T-PRO 400HT has no eco-toxic effects, is non-bioaccumulative, and poses no long term health effects when properly handled in accordance with manufacturers instructions.

T-PRO 400HT is:

- Water based;
- Non-combustible;
- Non-reactive; and
- Stable under recommended storage conditions

T-PRO 400HT may contain low levels of VOC's or ammonia which evaporate during application and drying and therefore should always be handled in a well ventilated space. Standard personal protection rules apply when working with polymers, eye and skin protection should be worn when working with any type of chemical substance.

For a complete ecological information and handling instructions, please see the MSDS.

11. INSTALLATION

The Terratech design team focuses on each client and each project individually to develop protocols that suit the job and the site conditions. Terratech designs, tests and develops the best methodology for each project to meet the performance objectives. Based on project performance objectives, there are two primary means of polymer application, **infused** and **topical**.

The **infused application** involves the mechanical intermixing of liquid polymer solution with the soil subgrade to a single lift thickness of 4 to 6 (8 to 15 cm) inches which is then compacted in place and left to cure for a minimum period of 72 hours, based on temperature and other ambient conditions.

The **topical application** consists of a sprayed in-place polymer solution over a prepared subgrade. The application requires a minimum of 24 hours of cure time. The topical installation may involve a single spray-on application or several successive applications with varying polymer concentrations based on the infiltration characteristics of the soil profile.

12. WARRANTIES

Warranty information is project specific. Please contact Terratech for further information.

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