

Penetrative and Track Resistant Prime Coats

Zydex
Innovating for Sustainability



TerraPrime

Cationic bitumen emulsion additive that enables a deeply penetrative prime coat that is track resistant and waterproof. TerraPrime forms a permanent chemical bond between the prime coat and soil base, thereby enabling high bond strengths, track resistance and lower residual bitumen contents.

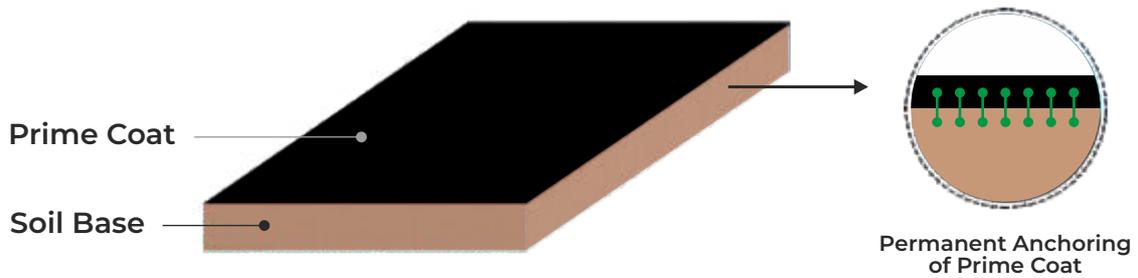
BENEFITS

- ✓ Track Resistance
- ✓ Uniform Coverage
- ✓ Improved Penetration
- ✓ High Bond Strength
- ✓ Lower Residual Bitumen
- ✓ Reduced Nozzle Clogging
- ✓ Finer Droplet Size
- ✓ Water Resistance
- ✓ Quick Setting

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CHEMICALLY BONDED PRIME COATS

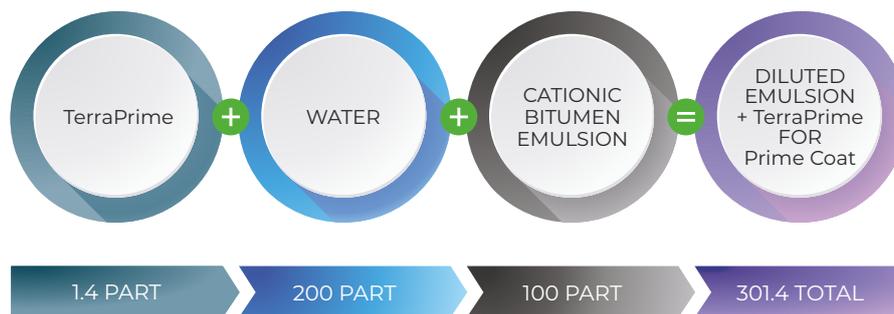
TerraPrime enhanced emulsions form a durable chemical bond between the bitumen and the underlying surface. The permanent anchoring of the bitumen ensures complete and homogenous load transfer between the various layers of the pavement, while significantly reducing the potential of the bitumen to track and be prone to moisture damage.



Additionally TerraPrime is designed to reduce the surface tension of CSS type emulsions significantly. This leads to improved wetting and coverage properties, deeper penetration in to the soil base, quicker setting times, and reduced droplet size of the emulsion.

MIXING, DOSAGE & APPLICATION

TerraPrime is a water soluble additive that can be post added to the appropriate grade of Prime coat bitumen emulsion (Cationic Slow Set Types) or be directly added into the soap phase during the emulsion manufacturing stage. TerraPrime based emulsions are typically diluted with water at the time of application as high bond strengths can be achieved at lower residual bitumen content. Additionally TerraPrime emulsions are deeply penetrative and can provide track resistance.



When TerraPrime is added into a cationic slow set emulsion, the recommended method of mixing is to dilute the additive with water in a spray truck first, and then gradually add the Prime coat emulsion to ensure homogenous mixing.

KEY BENEFITS COMPARISON

In addition to imparting track resistance to prime coats, TerraPrime imparts the emulsion with myriad benefits including: improved wetting and coverage, deeper penetration, smaller particle size, reduced nozzle clogging and faster drying.

CONTROL	PARAMETER	WITH TerraPrime
Poor	Stability of Emulsion	Improved
Clogged	Nozzles	Clean
Streaky	Spray	Uniform
Limited	Bond Strength	High
Limited	Water Permeability	Eliminated
Low	Track Resistance	High

STORAGE & SHELF LIFE

Store TerraPrime between 41 – 113 °F (5 to 45 °C) in a shaded, dry area away from sunlight, heat, source of sparks, rain and standing water. Fasten the container lid securely after every use. Its shelf life is 48 months. In case the product freezes at low temperatures, allow it to thaw and unfreeze.

ABOUT ZYDEX

Established in 1997, Zydex is a specialty chemicals company with the purpose of innovating for sustainability.

Beyond pavement products, Zydex offers a diverse set of chemical technologies for the textile, agriculture and civil construction industries. We were recently recognised as one of the 25 Most Innovative Companies in India by the Confederation of Indian Industries (CII).

Sustainable Green Chemistry

Zydex is deeply committed to sustainable chemistries that ensure a greener future for everyone. Our commitment has made us a pioneer in introducing non-polluting and non-hazardous technologies that conserve, protect and enhance the environment. Pursuing chemical innovations that would mean a greener, purer and more resource renewable world is our passion. Our technologies have been recognized by the International Road Federation (IRF), and have been globally adopted.

GLOBAL PRESENCE

