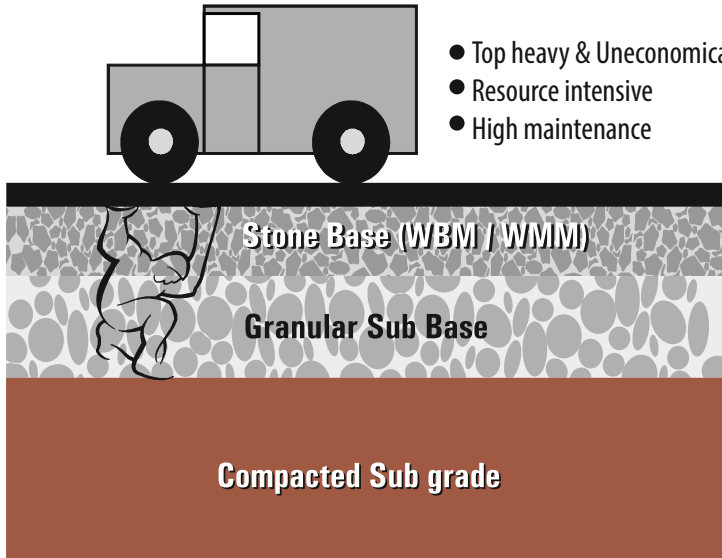


Zydex® Nanotechnology - A Game Changer

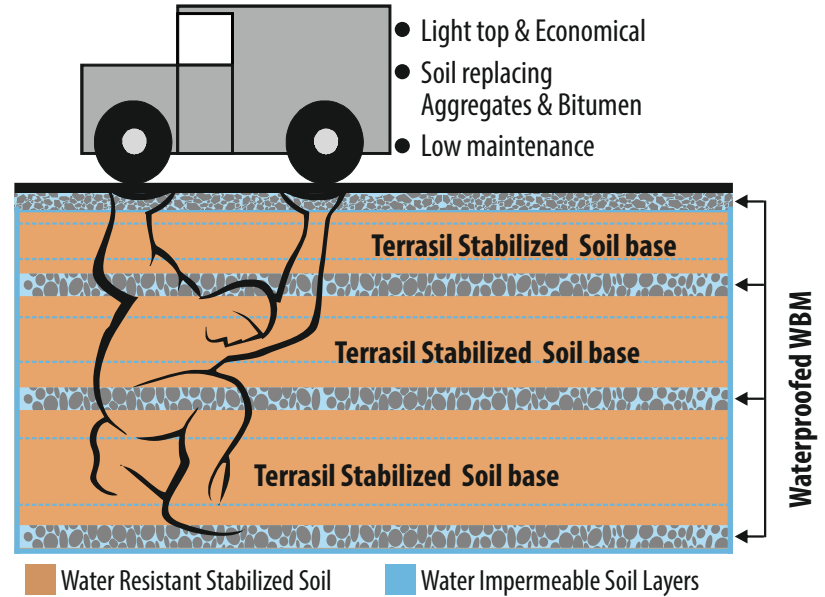
Revolutionary technology for building Moisture Resistant, Long Lasting & Maintenance Free Green Roads

CONVENTIONAL ROAD DESIGN



- Top heavy & Uneconomical
- Resource intensive
- High maintenance

OPTIMIZED ROAD DESIGN



- Light top & Economical
- Soil replacing Aggregates & Bitumen
- Low maintenance

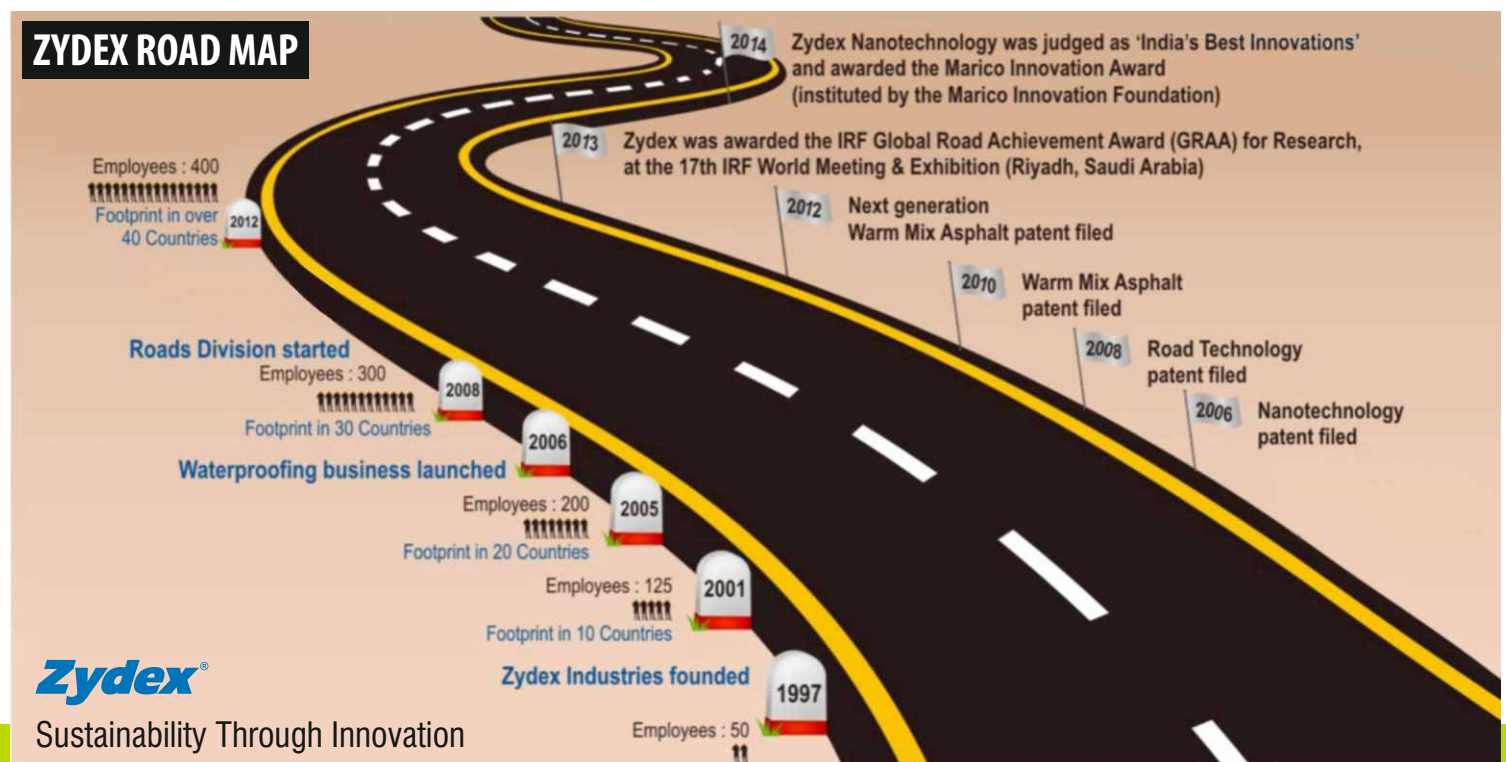
(Diagrams for illustrative purpose only. Not to scale)

Zydex nanotechnology Terrasil lowers the expansivity & improves the strength characteristics of the soil and presents the designer with an opportunity to optimize thicknesses of the expensive top layers, saving road construction cost with extended life cycle. Moreover, use of Zydex nanotechnology products for chemically bonded bond coats and asphaltic layers allow building of moisture resistant, long lasting, maintenance free roads.

Zydex Nanotechnology Value proposition

We make "Water Resistant Roads"

We contribute to sustainability by saving limiting resources and also deferring their demand by extending life of the roads



Zydex Nanotechnology Solutions

➤ CHEMICAL BONDING FOR ASPHALTIC LAYERS

ZycoTherm enables Chemical bonding of bitumen to aggregates and eliminates moisture & heat induced damage to asphaltic layers. Improves strength and flexibility with higher compaction density.

ZycoTherm

- Chemical Bonding eliminates potholes & raveling
- Complete Coating gives improved oxidation resistance
- Enables Consistent Compaction
- Allows compaction at lower compaction temp.
- Offers higher rutting & fatigue resistance
- Reduces Bleeding

ASPHALTIC LAYER

➤ CHEMICALLY BONDED, WATERPROOFED BOND COATS

Both Prime and Tack coats become 100 % waterproofed, due to penetration and chemical bonding. This also ensures 100% coverage at lower residual bitumen.

Tack Coat

NANOTAC

&

Prime Coat

TerraPrime

A D V A N T A G E S

- Chemical Bonding
- Higher bond strength
- Waterproofing
- Uniform load transfer due to 100% coverage
- Reduced Slippage between layers
- Improved Coverage
- No Nozzle Clogging
- Tack free surface
- Zero volatile emissions
- Quick Setting

TACK COAT

PRIME COAT

➤ NON EXPANSIVE, STRONGER & WATERPROOFED SOIL LAYERS

Terrasil makes the soil impermeable to water, reduces expansiveness and stabilizes almost any type of soil to improve its bearing strength manifold. If used with 1% cement, it can improve the California Bearing Ratio (CBR) to even 100 or above. This is a game changer, as stronger soil base would now allow optimization of road section design, potentially leading to substantial saving in road construction cost.

Terrasil

- Reduces water permeability
- Reduces Expansiveness
- Higher CBR values
- Better Compaction
- Breathability
- Deformation Resistance
- Eliminates Water Capillary Rise

SOIL STABILIZATION

ZycoTherm

Warm / Cool Hot Mix

Nanotac

Tack Coat / Cold Mix

Terraprime

Prime Coat

Terrasil

Soil Stabilization / Waterproofing



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