



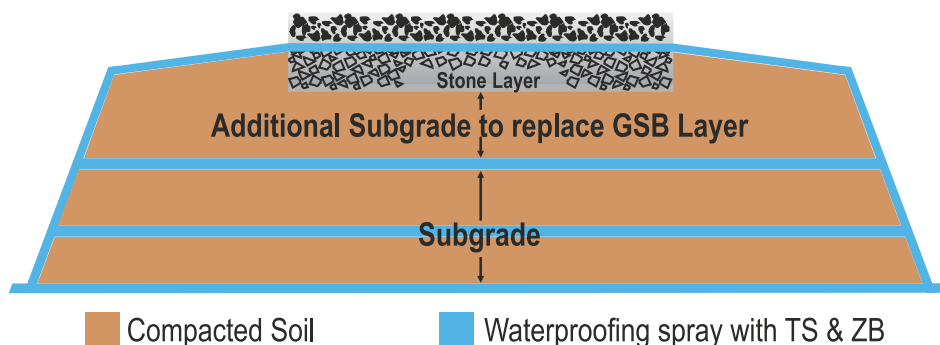
ZYDEX NANOTECHNOLOGY - PRODUCTS & FEATURES

- **Terrasil** is a water soluble, UV and heat stable, reactive soil modifier to reduce swelling. Spray of Terrasil solution waterproofs compacted soil surface up to 10 mm depth.
- **ZycoBond** is a UV and heat stable, cross-linkable soil modifier. It is a nano sized acrylic co-polymer dispersion in water. It complements conventional stabilization methods by imparting water resistance and flexible bonding to the soil.

REDUCED PERMEABILITY - MULTI LAYERED WATERPROOFING

Zydex nanotechnology allows building compacted soil layers with surface waterproofing between them, as illustrated. The benefits of surface waterproofing are as follows:

- Surface waterproofing with Terrasil & ZycoBond ensures reduction in permeability to the tune of 10^{-7} to 10^{-8} cm/second up to a depth of 10 mm. (This means water will require minimum 100 days to travel through this 10 mm barrier).
- This layer is breathable, as it does not allow water to get in, but allows vapor to escape. As a result, even if some water enters the soil base, it eventually evaporates and escapes through the breathable waterproofed layer.



Conventionally, GSB layer in a pavement acts as “Drainage Layer”. However, with surface waterproofing, GSB layers are not required anymore and hence, can simply be replaced with soil layer, which potentially results in cost saving.

Multi layered surface waterproofing as illustrated can protect road bases from water damage and ensure dry CBR throughout the year. Solution : TS : ZB : Water = 1:1:200, to be sprayed @3 L/ m² or till saturation.

STORAGE & SHELF LIFE

Store **Terrasil** between 0 to 45 °C (32 – 113 °F) 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.

Store **ZycoBond** between 5 to 45 °C (41 – 113 °F) 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.

DISCLAIMER

Whilst the information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.



Zydex Industries, 61, Gotri-Sevasi Road, Vadodara - 390 021. Gujarat. INDIA.

Tel : +91 265 3312000 **E-mail** : roads@zydexindustries.com, info@zydexindustries.com **Web** : www.zydexindustries.com