

Soil Modifier for CBR Enhancement



TerraSil+ is a reactive soil modifier that dramatically improves the CBR and swelling characteristics soil sub-grades. Designed to be introduced through the water of compaction, TerraSil+ works at extremely low dosages and enables economic upgradation of subgrade soils. The technology can also be used in conjunction with conventional stabilization methodologies, such as cement and lime for dramatic improvements in the load bearing capacity of subgrades.

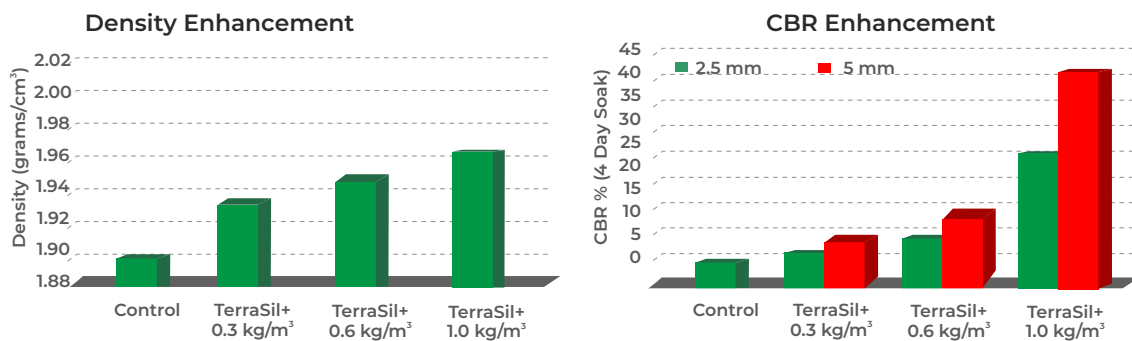
BENEFITS

- ✔ Improves CBR
- ✔ Improves Proctor Density
- ✔ Reduces Soil Expansivity
- ✔ Easy to apply
- ✔ Low Dosages
- ✔ Compatible with Wide Variety of Soils
- ✔ Compatible with Cement and Lime

SOIL SUBGRADES

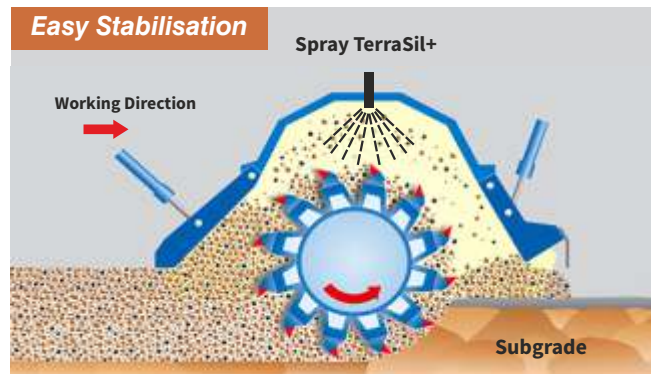
The CBR of sub grades is a critical design component of the overall pavement structure. A high CBR subgrade results in enhanced load bearing capacity of the overall pavement structure, while a low CBR subgrade often requires modification / remediation in some form. Quite often, the modification / remediation is done via expensive processes such as cement / lime stabilization and/or hauling higher quality soils on site.

TerraSil+ is an easy to use additive technology that can boost CBR and MDD values of in situ soils dramatically. Typical dosage rates are 0.3 to 1 kg/m³. Illustrative data is shown below.



STABILIZATION METHODOLOGY

TerraSil+ is water dilutable and mixed in situ with the soil as part of the water of compaction (OMC Water). Typically, the dilutions are between 1:80 & 1:250. Due to its ability to be introduced through water, TerraSil+ mixes and distributes into the soil extremely efficiently. The liquid nature of the product also helps avoid dusting issues typically associated with cement or lime.



Furthermore, due to the low dosage rates of TerraSil+, transportation costs to site are significantly reduced as compared to cement or lime.

STORAGE & SHELF LIFE

Store TerraSil+ between 41-113 °F (5 – 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

