Civil Construction

ECOBOND GS90

TECHNOKOTES's most advanced polymer soil stabilization product, ECOBOND GS90 was developed, for use in the construction of high-quality and cost-effective pavement applications. ECOBOND GS90 is available as a clear or opaque polymer. Both varieties are high performing stabilization agents that work by physically and chemically bonding soil or pavement particles leading to improved compressive strengths, high tensile resilience, and water impermeability.

Inadequate pavements (due pavement life or increased traffic volumes) can result in considerable and detrimental effects for an asset owner or manager's bottom line. Dust, potholes, rutting, corrugation and other surface degradation caused by heavy traffic or extreme weather can cause serious harm to people, the planet and profit.

ECOBOND GS90 polymer soil stabilization helps alleviate these environmental, social and financial concerns. Using in-situ or imported materials, ECOBOND GS90 is used to create a hard, semi-flexible and water impermeable pavement. ECOBOND GS90 mitigates against pavement and surface degradation.

Compared to conventional roads, ECOBOND GS90 polymer soil stabilization drastically reduces material and haulage costs, construction time and your project's carbon footprint – especially in remote areas. This makes ECOBOND GS90 roads greener, cheaper and longer lasting.

Benefits

ECOBOND GS90 offers:

- Efficient construction, with a skilled crew laying 6000m2 per shift.
- High strength polymer treated materials can reduce pavement thicknesses by 70%.
- Immediate cost benefits from construction and materials efficiency
- Long-term cost benefits from lower maintenance and repairs
- Environmental protection – GRT products are non-toxic, have a low carbon footprint and use in-situ materials
- ECOBOND GS90 soil stabilization is manufactured to ISO9001 standards and has been comprehensively reviewed by leading independent testing institutions and major companies.

Applications

ECOBOND GS90 polymer soil stabilized pavements display high bearing and tensile resistance, and pose a cost effective alternative to traditional bound pavements such as asphalt and concrete – for a laid pavement saving from 50-70%. This polymer treated pavement can be used to design and construct:

- Haul roads
- Rural and farming roads
- Service roads and hardstands,
- Base and sub-base layers of major public roads and infrastructure / Independently verified as environmentally sustainable, ECOBOND GS90 can also be used to improve the performance of traditional cementitious stabilizing agents. Use of ECOBOND GS90 can reduce the quantity of cement or lime required in pavement designs, or completely replace them. ECOBOND GS90 is designed to treat:

- Natural or manufactured granular pavement materials
- In-situ recycled pavements
- Sub-grade materials such as clays, silts and sands