

StrataGrid™ Asphalt - Composite

Reinforcing asphalt to mitigate reflective cracking & enhance fatigue life of bituminous pavement.

SGA-C is an engineered geosynthetic developed for asphalt pavement reinforcement, specifically formulated to mitigate reflective cracking and enhance the fatigue life of bituminous layers.

The composite structure comprises a high-tenacity polyester geogrid with uniform tensile strength in both machine and cross-machine directions, integrally bonded with a thermally stable, lightweight non-woven fabric. The entire composite is coated with a proprietary bituminous coating that ensures strong interlayer bonding between asphalt layers.

SGA-C conforms to relevant specifications and available guidelines formulated by respective regional road transportation departments and industry bodies. It is designed to offer consistent tensile performance and durability under repetitive traffic loading.

By improving the interlayer shear resistance and bond strength enhancing the structural resilience of the bituminous layers, SGA-C serves as an effective reinforcement layer for a wide range of design including greenfield and rehabilitation pavement applications.

Key Features:

- Available in roll widths up to 3.75m
- Tensile strength: 50 kN/m & 100 kN/m (both MD and CMD).
- High modulus and low elongation with optimized stress-strain characteristics for both greenfield pavements and rehabilitation pavements.
- Provides industry leading Fatigue Improvement Factor (FIF) and Rut Improvement Factor (RIF) of composite bituminous interlayers.

Typical Applications:

- Pavement overlay reinforcement during maintenance cycles.
- Structural rehabilitation of flexible pavement systems.
- Mitigation of reflective cracking from underlying joints or cracks.
- Reduction of rutting and surface deformation in high-traffic areas.
- Enhances trafficability requirements of the greenfield pavements.