Choose the Pavement Interlayer System That is Right for Your Application

The GlasGrid® Pavement Reinforcement System provides additional support to resist the migration of reflective cracks in pavement applications, thus reducing maintenance and life cycle costs. The GlasGrid System has proven to be effective in every geographical area and climate – from desert environments to near arctic conditions. Manufactured by Saint-Gobain ADFORS in Albion, New York, this interlayer system is composed of a series of fiberglass strands coated with an elastomeric polymer and formed into a grid structure. Each strand has a remarkably high tensile strength and high modulus of elasticity; this is particularly important as asphalt concrete typically cracks at low strains. And now GlasGrid TF, the newest product in the GlasGrid System, is the only pavement interlayer to include a pre-installed tack film that offers faster installation, improved performance and savings on labor, time and material costs.

A hybrid geosynthetic paving material, GlasPave® is a unique combination of fiberglass mesh embedded into high performance polyester mats. The non-woven matrix structure of GlasPave offers for an asphalt binder to penetrate and fill voids within the fabric to limit moisture infiltration into a pavement structure. The fiberglass matrix in a GlasPave paving mat coated with an elastomeric polymer provides significantly greater tensile strength at low strain when compared to conventional paving fabrics and other paving mats. This higher strength helps extend pavement life by delaying reflective cracking, which is a common contributor to costly repairs and the eventual failure of asphalt overlay applications. Even in the harshest environments, GlasPave can provide significant improvement to the service life of the overlay.

With proper design and placement, interlayers can add traffic capacity to the asphalt pavement.
Selection of Geosynthetic Pavement Interlayers

Geosynthetic interlayers are a cost-effective and easy solution to enhance the service life of asphalt overlay applications. Tensar International Corporation (Tensar) offers new geosynthetic interlayer systems that improve the performance of asphalt layers in new construction and pavement rehabilitation. The stress-absorbing GlasPave® Waterproofing Paving Mat combines the unique combination of features in the GlasGrid System—high tensile strength combined with high modulus and high-temperature stability for long-term performance in asphalt overlays. The GlasPave Waterproofing Mat combines the proven performance of a polyester mat with the high modulus and high-temperature stability of fiberglass netting to yield a cost-effective reflective crack mitigation system for right- to medium-duty pavement overlay projects.

TWO TYPES OF INTERLAYERS ARE AVAILABLE TO MEET YOUR REQUIREMENTS:

1. **GlasGrid Pavement Reinforcement System**
   - Offers superior stiffness characteristics along with an open drainage capacity.
   - Suitable for heavier applications in high-traffic areas or where drainage needs are high.

2. **GlasPave Waterproofing Paving Mat**
   - Provides water resistance and reflective crack mitigation.
   - Ideal for lighter applications or where drainage is not as critical.

This guide is intended to offer general assistance in product selection. The interlayer types have been identified based on current testing of the distress types referenced in World Highways. Tensar reserves the right to change the Product Selection Guide without notice. Detailed technical information can be found in the Tensar Engineering Guide. To improve design with assurances and increased traffic capacity, consult with a Tensar representative or calling 800-877-7755. Tensar highly recommends performing a Geosynthetic pavement Interlayers Service Life Assessment Survey, similar to the one used by Tensar when conducting the Long-Term Pavement Performance Program. For additional assistance in product selection, see the GlasGrid® and GlasPave® Product Selection Guide.

**GlasGrid® and GlasPave® Product Selection Guide**

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**Product Selection Table by Crack Distress Type**

- **Inter-Urban Roads or Interstate Highways**: > 9 M Veh/Day; > 3% Heavies
- **Airports - General Aviation Traffic**: < 4M Veh/Day; < 1% Heavies
- **Airports - Regional/International**: Commercial Traffic
- **Industrial Parts or Intermodal Facilities**: > 20P; > 1,000 Axle Loads

**Product in Applied**: Full Width

- **Full Width or Detail Repair**: 80% consolidation + 3 months
- **Detail Repair**: 90% consolidation + 6 months

**Crack Type**

- **Reflective**: Increase HMA thickness
- **Thermal**: Moisture barrier for fatigued and cracked asphalt
- **Cracking**: To increase pavement life or reduce HMA layer thickness
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