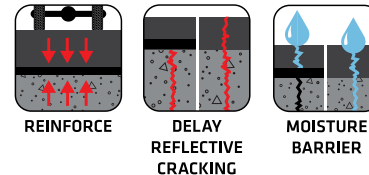


## Why Just Mill & Fill or Overlay?

### Add Performance to Existing Pavements by Designing with Reinforcement

Rehabilitation design using reinforcement has a light footprint, but has a heavy impact on the following performance. The GlasGrid family of high tensile strength, low elongating elastomeric polymer coated paving reinforcing systems address the challenges of insufficient ESAL capacity in asphalt structures. These systems offer a cost-effective alternative to thicker asphalt overlays, which only resolves the ESAL capacity issue.



**INCREASE ESAL CAPACITY BY 2 TIMES OR MORE**  
**DELAY CRACKS UP TO 6 TIMES**  
**CREATE MOISTURE BARRIER EQUIVALENT TO 1.2" OF HMA**

## HMA PAVING REINFORCING REBAR PERFORMANCE VS COST COMPARISON

Increasing the Performance of an HMA Pavement

New or overlay of old pavement or milled surface				Added Performance of Reinforcing vs Added Cost			
				Cost of Achieving Equivalent ESAL Capacity			
Pavement Condition	Distress	Reinforcing Type	Installed Cost	Added HMA Needed	HMA Cost	GlasGrid + 2" HMA Cost	Crack Delay
Properly prepared surface + level-up on stable base Axle Load >20kip		<b>GlasGrid® 8511TF</b>	<b>\$0.90 SF</b>	2.0"	\$1.36 SF	<b>\$2.26 SF</b>	Ultimate Crack Delay**
Properly prepared surface + level-up on stable base Axle Load >20kip		<b>GlasGrid® 8511</b>	<b>\$0.70 SF</b>	2.0"	\$1.36 SF	<b>\$2.06 SF</b>	Max Crack Delay
Properly prepared surface on stable base ESALS >1M >5% Heavies		<b>GlasPave® 50</b>	<b>\$0.60 SF</b>	2.0"	\$1.36 SF	<b>\$1.96 SF</b>	Up to 6x Crack Delay Waterproof*
Properly prepared surface on stable base ESALS <1M <5% Heavies		<b>GlasPave® 25</b>	<b>\$0.30 SF</b>	1.5"	\$1.02 SF	<b>\$1.32 SF</b>	Up to 3.2x Crack Delay Waterproof*
Properly prepared surface on stable base ESALS <300K <1% Heavies		<b>2" HMA No Interlayer</b>			\$1.36 SF		Cracks Return 1" per year or within 2 years, on average
Installed on a stable base with failures repaired. Cost based on HMA at \$110/ton or \$6.11 SY/IN. or \$0.68 SF/INCH.							
A simplified quick reference. See full guidelines in the Pavement Reinforcement-Product Application Guide. Increased traffic capacity as listed in equivalent thickness of HMA pavement is dependent on ME/AASHTO design for each specific pavement. Added crack delay based on independent Texas Transportation Institute (TTI) testing. Moisture barrier based on FM 5-565 permeability testing and Recyclability is based on independent AASHTO T283-07 test. Cost is relative average and varies so must be calculated by market and each job based on size, location, and project productivity. *Per FHWA NHI-07-092 Geosynthetics Engineering Pavement Overlays Aug 08 page 6-6 an interlayer that creates a waterproof membrane is equivalent to adding a 1.2" HMA overlay. ** 50% greater stress control in beam test than standard GG8511.							

Exclusive distributors in the Americas for:



The GlasGrid® GG System is manufactured in the U.S.A. at an ISO 9000-2000 standard registered facility of Saint-Gobain ADFORS.

GlasGrid® is the registered trademark of Saint-Gobain ADFORS. US Patent 4699542/4957390/5110627/5393559. Canadian Patent 1240873. European Patent EP0318707. Japanese Patent 2611064. ©2004 Saint-Gobain ADFORS. GlasGrid® is distributed in the United States of America, Canada and certain other countries by Tensar International Corporation (Tensar). Inasmuch as Saint-Gobain ADFORS and Tensar have no control over installation design, installation workmanship, accessory materials, or conditions of application, Saint-Gobain ADFORS and Tensar do not warrant the performance or results of any installation or use of GlasGrid®. This warranty disclaimer includes all implied warranties, statutory or otherwise, including the warranty of merchantability and of fitness for a particular purpose. ©2017, Tensar International Corporation

Let us work with you on a project to show you the design

TensarCorp.com | 800-TENSAR-1