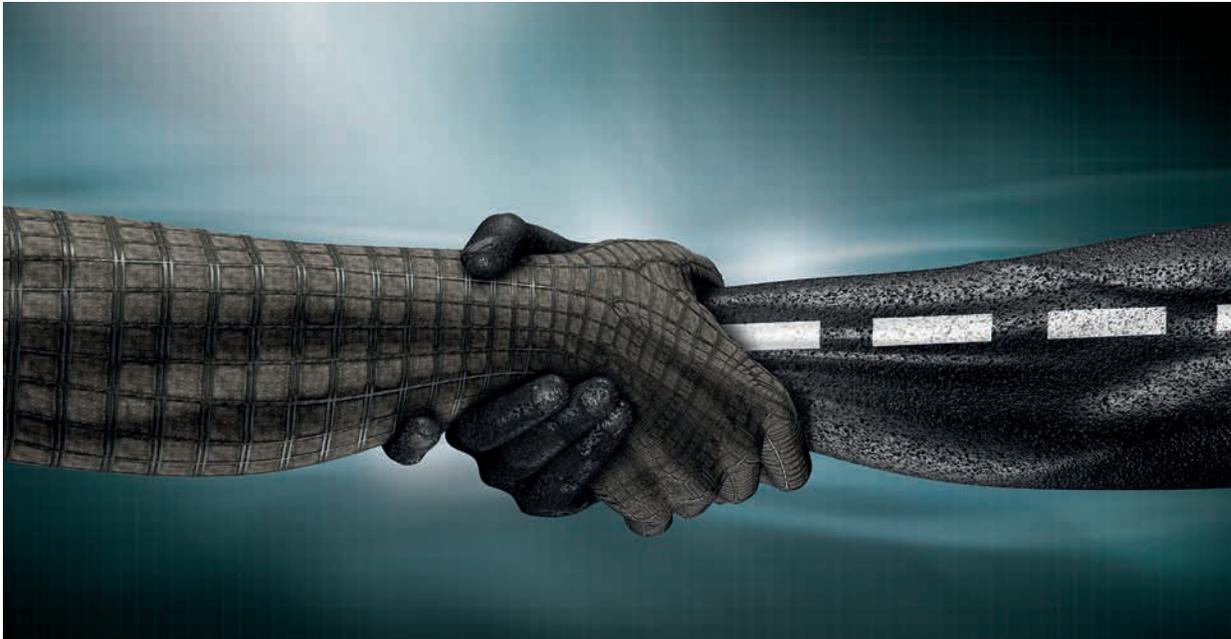




Asphalt Reinforcement

Rehabilitation of Asphalt Pavements

Virginia DOT, State Route 611, Appomattox, VA
Asphalt reinforcement with **HaTelit® G 100**



Pavement Conditions

The existing pavement surface conditions on Route 611 near the intersection of VA SR 26 exhibited severe signs of delamination and “tearing” due to heavy truck braking on a mild grade approaching the stopping zone.

The Solution

The State of Virginia selected HUESKER Inc., based in Charlotte NC the opportunity to install its HaTelit G 100 high strength composite interlayer to improve the newly proposed hot mix asphalt overlay against delamination and reflective cracking. The surface wearing course was milled from approximately 130 lineal feet west of the intersection to remove badly damages pavement. The pavement was cleaned and prepared removing all residual debris allowing for the installation of the G 100 interlayer to proceed by American Paving Fabrics, Hanover MD. An Application rate of performance grade liquid asphalt tack (PG 64-22) was applied to the milled surface at a rate of 0.13 gal/sy applied at a

temperature of approximately 310°F. The remaining pavement surface was cleaned and an application rate of PG 64-22 was applied at a rate of 0.11 gal/sy, followed by the installation of HUESKER’s HaTelit G 100 material for an overall experimental test section of approximately 1,000 lineal feet on both lanes, for full width coverage. Ambient air temperatures were 55°F when installation began attaining a high temperature of approximately 80°F during the afternoon hours when paving operations were underway. The job mix asphalt formulation was a Virginia DOT 9.5mm-D aggregate installed at a yield of approximately 175#/sy. Boxley Paving Contractors, Lynchburg VA performed the paving operation using a Roadtec RP-170 asphalt paver followed by a compaction pattern using a combination of static and vibratory rolling patterns.

Figure 1 Unmilled Pavement-Application Rate @ 0.11gal/sy

Each lane was approximately 10 feet wide and material was installed at 10’-6” wide to allow for proper overlapping of the material, ensuring against slippage and delamination.



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HaTeli G 100

Material: HaTelit G 100

Installed: May 4, 2016, American Paving Fabrics,
Hanover MD, USA

Paving Contractor: Boxley Paving, Lynchburg, VA

Owner: Virginia Department of Transportation

Finished Road Surface

The installation of the HaTelit G 100 and wearing course was completed at approximately 4 pm on Monday April 4, 2016. The State of Virginia will continue to provide oversight on the surface performance of the roadway conditions. Additionally the State of Virginia conducted shear testing on core samples taken at various locations and all samples exceeded the minimum requirements for adhesion –shear between asphalt layers. The test was conducted approximately three weeks after the installation of the HaTelit G100 reinforcement.



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