



Performance and Cost Effectiveness of Permeable Friction Course (PFC) Pavements (FHWA/TX-12/0-5836-2)

Edith Arambula, Cindy K. Estakhri, Amy Epps Martin, Manuel Trevino, Andre De Fortier Smit, Jorge Prozzi

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In this project, the research team evaluated the performance of Permeable Friction Courses (PFC) over time and compared it against other types of wearing surface pavement layers. Several pavement sections including Asphalt Rubber (AR) PFCs, Performance Graded (PG) PFCs, and dense-graded Hot Mix Asphalt (HMA) were monitored over a four-year period. Non-destructive on-site measurements included noise, drainability, texture, friction, and skid. The change of these variables with time as well as the influence of traffic, binder/mixture type, aggregate classification, and climatic region was evaluated. Accident data were also gathered and analyzed on a more comprehensive number of pavement sections across Texas. All of this information was compiled in database format. In addition, when performance issues were identified, field cores were acquired for forensic evaluation. Results from the multiyear performance data analysis and previous research were used to produce guidelines and recommendations to improve the design, construction, and maintenance of PFCs.

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