

CHISHOLM TRAIL PARKWAY TEXAS

North Texas Tollway Authority
Colorized Pavement Demarcation

In 2007 at a meeting with the North Texas Tollway Authority (NTTA) senior staff and their consulting engineer, an idea was floated to specify the most innovative demarcation project ever undertaken in North America. The concept was to install over 37 miles of black colored pavement on the shoulders of a brand new Portland cement highway.

The idea behind this request was to eliminate the need for continuous maintenance on the shoulders should they be constructed with conventional materials. While the concept had merit, the materials to achieve such as large undertaking did not exist.

The first step was to seek materials that would meet the NTTA strict design criteria. No vendor in the US, Canada or Mexico had such a product that would perform under the harsh north Texas climatic conditions of both extreme heat in summer and occasional heavy snow fall in winter.

Project Highlights

As the largest demarcation project ever undertaken in the US, the use of a recycled colored glass to demark a highway shoulder is unique and has never been successfully attempted on the scale of the NTTA project.

100% recycled colored glass was bonded to the pavement with a polymer resin binder. The product is an environmentally-sound investment, as well as being colorfast and fade-resistant, with good fiction values.

Prior to being installed, the pigment was tested for the NTTA project by TTI (Texas Transportation Institute) at their extensive Riverside Campus in College Station, TX.

Relevant Experience Gained

- Use of Blastrac® surface preparation machine; a self-contained highly precise and fast method of safely cleaning the pavement surface.
- Automated application vehicle was customized to suit the needs of this project.

Value to Customer

- Lane closures were unnecessary to maintain highway shoulders.
- National and international experience at providing solutions to complex transportation issues with an innovative pavement demarcation processes.
- Operating the world's largest fleet of fully-automated application vehicles with the most advanced electronic on-demand monitoring and specification compliancy controls has allowed DBi Services to be the predominate installer of colored pavement demarcation and high friction surfacing treatments.
- Ability to work with transportation departments, cities, counties, toll authorities and private industries to derive safe and economic world class solutions has earned DBi Services the respect of the engineering community across severa continents.



High Friction Surfacing Treatments are eligible for federal and state funding through HSIP (Highway Safety Improvement Programs)



WORLD HEADQUARTERS:

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