

BEXAR COUNTY INFRASTRUCTURE SERVICES DEPARTMENT INTERSECTION AND SCHOOL CROSSING APPROACH SAFETY ENHANCEMENT

Applications of HFST were installed at site-specific locations known to have high incidents of crashes at both intersection and school crossing approaches.

The High Friction Surfacing Treatment (HFST) is reducing accidents and saving lives by increasing pavement grip and keeping vehicles on the road.

HFST is comprised of a two-part highly modified epoxy resin binder and specially graded high friction bauxite aggregate.

The combined material components are applied simultaneously by a self-contained fully-automated application vehicle in one pass up to 12 feet wide.

All vehicles are equipped with digital readouts providing live updates on the volume of materials being applied, temperature conditions and other critical specification parameters.

These innovative continuous application vehicles are industry firsts, having revolutionized the speed, quality and cost-effectiveness of HFST installations.

iRM is a leader in providing lifesaving safety solutions, also offering demarcation of bike lanes with recycled green overlay materials, the preferred color approved by the FHWA.

The installation of HFST on pavements shows verifiable, long-term results in saving lives.

"...70% of wet pavement crashes can be affected by friction improvements." - U.S. Department of Transportation

iRM
**Interstate Road
Management**
**High Friction
Surfacing Treatment Division**

CASE STUDY: BEXAR COUNTY, TEXAS

Installed prior to an intersection or crossing location where vehicles are subject to braking, HFST increases the pavement friction substantially, while decreasing the time and area needed to safely brake.

Additionally, intersection approaches on grades are prime candidates for HFST to alleviate crashes in both wet and dry weather conditions.

Applying HFST at 150 linear feet in a full lane width approaching these areas of high conflict will reduce needless crashes.

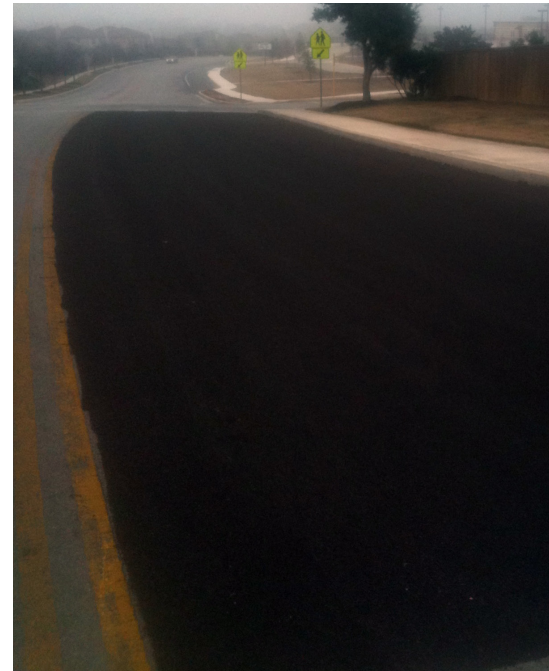
Familiar with such locations, Bexar County, Texas, about 190 miles west of Houston, bid a project in late 2011 to install HFST on four intersection approaches. One being a school crossing approach of special importance due to the number of children present.

This is the first time a County Highway Agency has taken steps to add friction at critical locations of conflict.

Intersections treated were:

- Rockwall Mill and Palmetto Way
- Wiseman Boulevard and Tally Road
- Antler Post and Rainbow Creek
- Cross Mountain Trail/Goodnight Loving Drive

All have a history of rear-end, side-swipe and skid-related crashes in both wet and dry weather conditions.



A study of 800 intersections treated with HFST by one large city in 1997 recorded a 31% reduction in crashes.



High Friction Surfacing Treatments are classified by the Federal Highway Administration as a low-cost safety solution and qualify for 100% safety funding under highway safety improvement programs.

For additional information on how HFST can enhance your safety program, contact Richard Baker, Market Development Manager: ☎ 804.539.5582 | ✉ rbaker@dbiservices.com

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