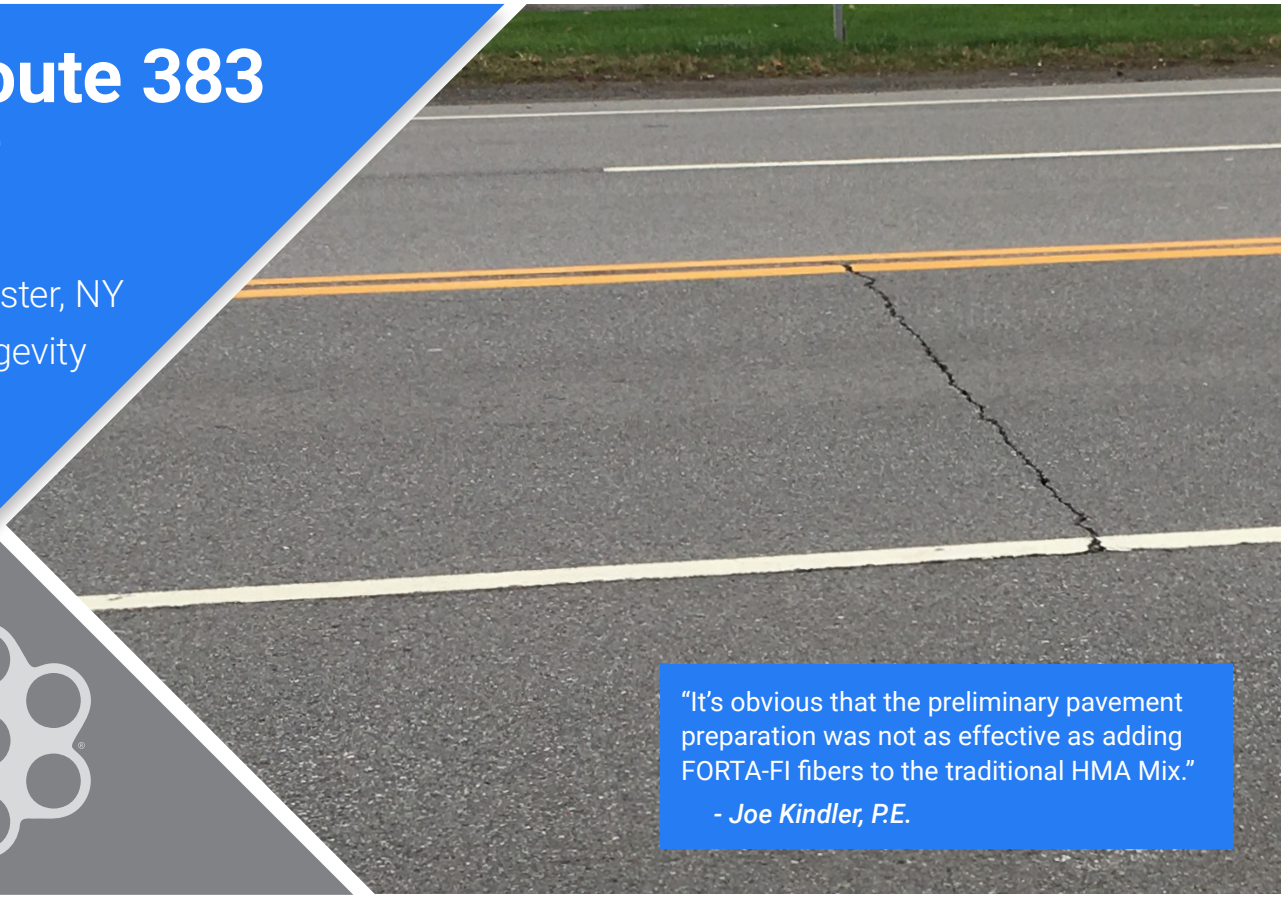
FORTA®
REINFORCEMENT THAT LASTS™

DOT
Resurface

State Route 383
7-year update

Date: 2015
Location: Rochester, NY
Advantage: Longevity



"It's obvious that the preliminary pavement preparation was not as effective as adding FORTA-FI fibers to the traditional HMA Mix."
- Joe Kindler, P.E.

Technical Specifications

Fiber Reinforcement: FORTA-FI®
Fibers Specified: Replaced Polymer Additives
Mix Design: PG 64-22
Overlay Thickness: 2"
Total Project Size: 10,000 ton

In 2015, NY District 4 wanted to find a substitute for their costly deep mill repair used to fix their transverse reflective cracking problem caused by an old (1930s) concrete base. FORTA-FI was placed in the west bound driving lane of Route 383 - this section of highway experiences heavier truck traffic than the control side, 70% of which is in the driving lane. The fiber side received a mill/fill instead of the traditional 6" deep mill to be filled with polymerized asphalt. All other lanes had typical joint repairs and the standard HMA overlay. Using **FORTA-FI saved over 4 weeks of construction time**, in lieu of the deep mill repair.

UPDATE

After 2 years, both lanes had benefited from a crack seal. However, the FORTA-FI reinforced side did not have cracks, but the typical joint repairs and the standard HMA overlay did.

After 7 years and 2 inspection cycles, this composite roadway was inspected again to determine the current PCI (Pavement Condition Index). The average for the FORTAfied™ side was about 8 points higher than the east bound control side. This confirmed that the cracking was delayed by at least 2 years. Using FORTA reinforcement fibers saved 10% in initial project costs and has been confirmed to be **more effective in stopping reflective cracking**. These savings also do not include reductions in traffic control or savings to the general public.

World-class design services, on-site support. *Contact us to learn more.*