



CEMENT & CONCRETE PRODUCTS™

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I-70 BRIDGE DECK REPAIRS

Bridge Reopened, Traffic Flow Restored with QUIKRETE® FastSet™ DOT Mix

DENVER, Colo. (March 1, 2007) – After nearly two weeks of freeze/thaw temperature changes, a 4-foot long, 8-foot wide pothole opened up in the westbound lane of the Interstate 70 overpass at West 20th Avenue in Denver on Feb. 13.

At 6:30 a.m., the Colorado Department of Transportation (CDOT) shut down the right and center lanes of I-70 when pieces of concrete began to fall from the bridge overpass down onto 20th Avenue, revealing the structural steel reinforcement bars (rebar) that supports the roadway. The shutdown limited traffic flow to one lane, resulting in a backup for six miles.



In need of a speedy solution, the CDOT contacted the Denver office of The QUIKRETE® Companies to request product to repair the bridge deck as soon as possible. Within hours, The QUIKRETE® Companies were on site with a load of QUIKRETE® FastSet™ DOT Mix for a full-depth repair of the overpass. QUIKRETE® FastSet™ DOT Mix is a rapid setting repair material specially formulated for use in structural concrete repair, bridge decks, roadways and parking deck applications.

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The QUIKRETE Companies Inc.

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Prior to patching, the CDOT crew shored up and created a concrete form with plywood on the underside of the bridge, cleared old asphalt and cement from the pothole with a jackhammer and replaced the damaged rebar exposed by the pothole.

Once QUIKRETE® FastSet™ DOT Mix was poured; it set in approximately 30 minutes and reached a compressive strength of 3,000 psi after 90 minutes.

Following cold weather precaution guidelines, workers used a heater to maintain a temperature of 55 degrees for the water being added to the mix, to ensure that the mix would react properly. All told, more than 3,000-pounds of QUIKRETE® FastSet™ DOT Mix were used in the bridge overpass repair.

Two and a half hours after the initial application of the mix, Colorado State troopers were able to open all of the lanes on I-70, far exceeding the goal of opening the lanes by the next morning. By using QUIKRETE® FastSet™ DOT Mix, the repaired overpass was able to achieve 6,500 psi after 24 hours and a 10,000 psi after 28 days.

The QUIKRETE® Companies

The QUIKRETE® Companies are the largest manufacturers of packaged concrete in the United States and an innovative leader in the commercial building and home improvement industries. QUIKRETE® products are manufactured and bagged in 86 manufacturing facilities in the United States, Canada, Puerto Rico and South America, allowing for unsurpassed distribution and product depth. The QUIKRETE® Technical Center ensures that professionals and consumers alike are provided with the most innovative and highest quality products available on the market. For additional information on The QUIKRETE® Companies or its products, please visit www.quikrete.com or call (800) 282-5828.

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