

PROJECT > Caldecott Tunnel

Shotcrete MS - Fiber Reinforced
Orinda, CA



PROJECT DESCRIPTION:

The Caldecott Tunnel currently consists of three separate tunnels (bores) supporting more than 160,000 vehicles per day. The tunnels connect Oakland, CA and Contra Costa County, CA. Bores 1 and 2 were completed in 1937 with bore 3 being constructed in 1964.

To ease traffic congestion, a 4th bore is under construction with an expected completion in late 2013. The 3,650 foot long tunnel is supported by steel fiber reinforced shotcrete applied at a 4" - 6" thickness by a track mounted robotic arm.

QUIKRETE® Shotcrete MS is being utilized to eliminate downtime and supplement the wet mix shotcrete being supplied by Ready Mix trucks.

QUIKRETE® Shotcrete MS - Fiber Reinforced is a Micro Silica enhanced shotcrete containing stainless steel, deformed end, steel fibers that exhibit extremely low rebound, and it exceeds 9,000 PSI compressive strength at 28 days.

Additionally, QUIKRETE® 94 lb Portland Cement is being injected as a neat grout for soil nailing and filling voids in the rock walls.

GENERAL CONTRACTOR:

Johnson Western Gunite

PROJECT START DATE:

September 2010

QUIKRETE® PRODUCTS USED:

- 3,000 lb Shotcrete MS - Fiber Reinforced : 500 bulk bags
- 94 lb Portland Cement : 11,550 bags

PROJECT COMPLETION DATE:

2013



QUIKRETE® Shotcrete MS
- Fiber Reinforced >>
Product No. 1228-51



QUIKRETE® Portland Cement
>> Product No. 1124-94

