PROJECT > Mullan Tunnel

Shotcrete MS - Fiber Reinforced & Grout Blossburg, MT





PROJECT START DATE: May 2009

PROJECT COMPLETION DATE: September 2010

QUIKRETE® Shotcrete MS - Steel Reinforced >> Product No. 1228-87

QUIKRETE® Core-Fill Grout- Fine >> Product No. 1585-08



PROJECT DESCRIPTION:

Mullan Tunnel is the longest railroad tunnel in Montana, at 3896 feet long. To accommodate larger freight loads the tunnel height was increased 5 feet and by 3 feet in width. In total, more than 100,000 cubic yards of dirt and rock were excavated and removed from the tunnel.

QUIKRETE® Shotcrete MS - Steel Fiber Reinforced was used for the tunnel wall and roof structural shoring and expansion. QUIKRETE® Bulk Core-Fill Grout was used to fill voids between the tunnel walls and rock substrate. The microsilica enhanced shotcrete was applied using a dry process with a pre-dampener. QUIKRETE® Shotcrete MS - Steel Fiber Reinforced achieves compressive strengths of more than 9000 psi (62 MPa) in 28 days with virtually no rebound.

CONTRACTOR: LRL Construction

QUIKRETE® PRODUCTS USED:

• 3,000 lb Shotcrete MS

- Steel Reinforced: 3155 bags

• 3,000 lb Core-Fill Grout - Fine : 2856 bags

