PROJECT > Mullan Tunnel
Shotcrete MS - Fiber Reinforced & Grout
Blossburg, MT

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 micro-silica 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.

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

CONTRACTOR: LRL Construction

QUIKRETE® PRODUCTS USED:
• 3,000 lb Shotcrete MS
  - Steel Reinforced : 3155 bags
• 3,000 lb Core-Fill Grout - Fine :
  2856 bags