BELZONA SOLUTION TO ABRASION AT COAL MINE

ID: 1519

Industry:Mining & QuarryingApplication:SHM-Solids Handling Machinery

Customer Location: *Coal Mine, Southern Illinois* Application Date: *August 2010*

Substrate:Carbon SteelProducts:* Belzona® 1811 (Ceramic Carbide) Belzona® 1391 (Ceramic HT) ,

Problem

Excessive wear and costly replacement brought on by abrasion from coal dust. The coal chute and lateral fitting have an average operating temperature of 200°F. Due to excessive wear pipes were only lasting a few weeks before needing to be replaced. A cost effective alternative to replacement was being sought.



Photograph Descriptions

* View of holed lateral fitting Close up of inside damage Interior view of completed application Outside view of completed application ,

Application Situation

Transition pipe handling coal dust at 200°F.

Application Method

Application was carried out using a modified version of Belzona Know-How System Leaflet SHM-13. The interior cavity was filled with Belzona[®] 1811 and a "hard back" was formed on the outside to give maximum thickness for abrasion resistance. Inside was lined with Belzona[®] 1391 overlaid with aluminum oxide. application was then post cured for maximum resistance.

Belzona Facts

Belzona is a proven solution in abrasive environments offering simple and cost effective alternative to replacement which this client

For more examples of Belzona Know - How In Action, please visit https://khia.belzona.com

ISO 9001:2015 FS 695214 ISO 14001:2015 EMS 695213

Belzona products are manufactured under an ISO 9000 Registered Quality Management System.

www.belzona.com



was actively seeking.

For more examples of Belzona Know - How In Action, please visit https://khia.belzona.com

ISO 14001:2015 EMS 695213

ISO 9001:2015Belzona products areFS 695214manufactured under an ISO 9000 Registered Quality Management System.

www.belzona.com

