BELZONA SOLUTION TO ABRASION AT COAL MINE

ID: 1519

Industry:	*Mining & Quarrying*	Customer Location:	*Coal Mine, Southern Illinois*
Application:	*SHM-Solids Handling Machinery*	Application Date:	*August 2010*

Substrate: *Carbon Steel*
Products: ** 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

was actively seeking.

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

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

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