

BELZONA SOLUTION TO ABRASION AT COAL MINE

ID: 1519



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.

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.

INDUSTRY

Mining & Quarrying

LOCATION

Coal Mine, Southern Illinois

APPLICATION DATE

August 2010

PRODUCTS

Belzona 1811 (Ceramic Carbide) Belzona 1391 (Ceramic HT)

SUBSTRATE

Carbon Steel

PHOTOS

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

For more examples of Belzona Know-How in Action, please visit khia.belzona.com

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