

Belzona repairs and protects separator outlet in paper mill

ID: 8466

Industry: *Pulp & Paper*

Application: *SHM-Solids Handling Machinery*

Customer Location: *Serbia*

Application Date: *January 2021*

Substrate: *Basalt and Steel*

Products: ** Belzona 1111 (SuperMetal) ,
* Belzona 1811 (Ceramic Carbide) ,*

Problem

The Basalt lining was worn due to the erosive operating conditions of the separator. In the outlet pipe, a crack had formed due to the high impact loading in this area.



Photograph Descriptions

- * 1. View of the Separator ,
- * 2. Cracked outlet pipe ,
- * 3. Crack repaired with Belzona 1111 ,
- * 4. Application completed with Belzona 1811 ,

Application Situation

Basalt lined outlet area of a separator in a paper mill.

Application Method

The surface was prepared with mechanical power tools to roughen and clean the surface of both the Basalt and the steel. The

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ISO 9001:2015

FS 695214

ISO 14001:2015

EMS 695213

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cracked area was then repaired using Belzona 1111 to bond a reinforcement plate over the defect area, inline with Belzona System Leaflet TCC-2. Belzona 1811 was then applied to the outlet pipe and to some worn areas of the Basalt lining inline with Belzona System Leaflet SHM-11, offering additional erosion and abrasion protection.

Belzona Facts

The cracked area has warped, leaving one side of the crack raised above the other, which in turn accelerated the abrasive wear. Traditional solutions such as welding would only fill the gap and not allow for a smooth finish to help reduce the abrasive wear. Belzona was able to reinforce the cracked area and smooth the internal section of the pipe. Belzona 1811 was chosen due to its high abrasion resistant properties and ease of application in situ. The application was completed within 2 days, keeping down time to a minimum.

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