

WearShield Case Study

Copper Mine Damaged Pump Housing Repair

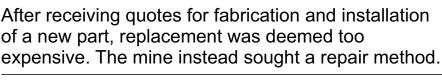
Pump housing at a copper mine left damaged by years of river water extraction undergoes repair after replacement was deemed too expensive

Defect



The pump housing was heavily damaged by years of extracting water containing silt, sand and other debris

damage. After rece



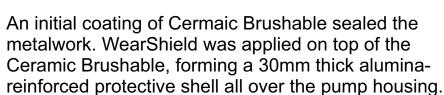
The pump housing was part of a system which

Years of exposure to this water had left the pump housing with heavy corrosion, abrasion and wear

extracted water containing sand, silt, dirt, stones and other debris from a river for use across the mine.

Solution

The pump housing was taken apart and cleaned to remove as much rust, dirt and grime as possible before repair with **WearShield Epoxy Paste** and **Ceramic Brushable Epoxy Coating**.



Because the dense alumina bead structure of WearShield makes the cured material rough, it was top coated with more Ceramic Brushable.

This gave the repair an ultra-smooth, low-friction finish to improve flow through the pump housing, making it more efficient when put back into service.

Result

Completing the repair took just two days and saved the mine a considerable amount of money.

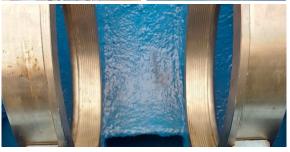
The pump housing will remain in service for many more years thanks to the significant protection provided by WearShield and Ceramic Brushable.



WearShield created a 30mm thick alumina-reinforced protective shell over the pump housing







Top coating WearShield with Ceramic Brushable left an ultra-smooth, low-friction finish to the repair

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