Elite KHIA

Centrifugal Pump repaired with Belzona

ID: 10170

Industry:	*Chemical & Petrochemical*	Customer Location:	*Decatur, AL*
Application:	*CEP-Centrifugal Pumps*	Application Date:	*December 2025*
Substrate:	*Carbon steel*		
Products:	*Belzona 1311 (Ceramic R-Metal),Belzona 1341 (Supermetalglide),Belzona 2141 (ACR-Fluid Elastomer),Belzona 2941 (Elastomer SP-Conditioner)*		

Problem

The customer identified the cavitation damage during a routine inspection on a scheduled downtime day. With no spare pump available, a rapid repair solution was required to restore the damaged areas and return the pump to service as quickly as possible, minimizing production losses and avoiding an extended unplanned outage.



Notice the cavitation area after blasting to a 3 mil profile.



After the pitting had been filled using Belzona 1311



After applying Belzona 1341



After applying Belzona 2941 conditioner and Belzona 2141

Application Situation

We were able to save this customer several days of downtime due to them not having a backup pump. We completed this repair and coating in just two days and the customer will get to install the pump and return to service in one more day after proper curing time is achieved. This will save the customer over $500k in downtime and replacement cost of a new pump.

Application Method

Once we had a plan in place to repair and coat we began by taping off the areas that were not getting repaired or a coating. Next we cleaned the surface to remove any oils or process chemicals. Then we blasted the surface to a 3mil profile. Once the surface was removed of any blasting materials and cleaned with 100% MEK we made the repairs using Belzona 1311. After proper curing time was achieved then we applied Belzona 1341 using a semi-stiff bristle brush. To complete the project we applied Belzona 2141 with a stiff bristle brush to achieve the proper thickness and coverage.

Belzona Facts

We were able to win this project from past success with this customer. Cost savings was over $500k in total.. There was no other option other than purchasing a new pump. We were able to secure a six month routine inspection on this and other pumps in their process.

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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