

Belzona Restores Damaged Pump Components

ID: 10175

Industry: Power
Application: CEP-Centrifugal Pumps
Substrate: Carbon steel
Products: Belzona 1121 (Super XL-Metal), Belzona 1331, Belzona 1341 (Supermetalglide)

Customer Location: Thailand
Application Date: March 2021

Problem

Pitting damage on the internal surface of pump impeller and pump casing was reported.



Severe damage on pump casings and impellers

Surface preparation on damaged pump parts

Complete application of Belzona protective system on the pump casing

Complete application of Belzona protective system on the pump impeller

Application Situation

The pump parts were delivered to the workshop of the Belzona Authorised Distributor in Thailand. The repair was carried out in the workshop environment.

Application Method

1. The substrate of the pump parts was blasted using steel grit until a minimum average profile depth of 75 microns and surface cleanliness of Swedish standard Sa 2.5 are achieved.
2. All loose contaminants were brush away and the surface was cleaned with Methyl Ethyl Ketone.
3. The casing areas were coated with Belzona 1341 (Supermetalglide) at a minimum dry film thickness 200 microns and the impeller was coated with Belzona 1331 at a minimum dry film thickness 250 microns.
4. On the pitted area, Belzona 1121 (Super XL-Metal) was applied to rebuild the surface on the pump parts.
5. The second coat of Belzona 1341 (Supermetalglide) was applied at a minimum dry film thickness 200 microns on the casing area. For the impeller, the second coat of Belzona 1331 was applied at a minimum dry film thickness 250 microns.
6. Once the application was completed, the pump parts were inspected for holidays/pinholes prior to delivery back to the customer's site.

Belzona Facts

Rather than replacing pump components, Belzona offers a durable, proven repair solution that enhances pump performance.

Belzona 1121 (Super XL Metal) has an extended working life, making it well suited for use in tropical climates such as Thailand. This paste-grade material is used to rebuild severely pitted areas of the pump.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

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

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

www.belzona.com

BELZONA
Repair • Protect • Improve

Belzona 1341 (Supermetalglide) is designed to improve pump efficiency by using hydrophobic technology.

Belzona 1331 is a fluid-grade for protecting immersed surfaces, ideal for pump parts that are subjected to erosion-corrosion attack.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

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

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

www.belzona.com

