

Belzona repair system to 3 x LV Bushing Flange Bases

ID: 9814

Industry: Power
Application: GSS-Gaskets, Seals and Shims
Substrate: Stainless-steel
Products: Belzona 1212, Belzona 5813, Belzona 7311

Customer Location: Kent
Application Date: May 2025

Problem

Customer identified a transformer with suspected leaks from all three LV bushing base flanges, and potentially from the porcelain interfaces.



Bushing Flange Bases had been identified as leaking oil



Existing paint removed and 1212 is applied



To complete application, a coating of Belzona 5831 is applied to encapsulate repair



Encapsulation is complete and leak has been stemmed

Application Situation

Transformers require oil as they have to run arc-free. As oil was being lost, this would result in constantly having to keep the oil topped up as a critical component for the machinery. Although in bunds, there is also potential for environmental issues if leak persists.

Application Method

Existing paint was removed from bolts and flange areas on either side of the defect and Emery paper was used on the porcelain bases to achieve surface keying to the best possible standard.

Belzona 1212 was mixed and applied to the joint/gasket areas, as well as to the nuts and bolt heads, incorporating Belzona Reinforcement Sheet where possible. In addition, moulds filled with Belzona 1212 were placed over the bolt and nut heads, which remained in place during curing.

Next, Belzona 7311 was mixed and applied to the porcelain/steel interfaces, again incorporating Reinforcement Sheet, and allowed to cure overnight.

The following day, all moulds were removed and any sharp areas carefully dressed back. To complete the system, the entire repair area will receive a final coat of Belzona 5831 LT, fully encapsulating the repair.

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
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Belzona Facts

Repairing the leaks saved on the cost of constantly replacing oil, and if transformer failed due to lack of oil, would have resulted in a very costly replacement.

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