

Belzona SF6-FIX

The online solution for SF₆ leaks

Belzona SF6-FIX is a sulphur hexafluoride (SF₆) leak sealing solution that can be applied online and without specialist tools. With Belzona SF6-FIX, leaks can be quickly and effectively reduced to undetectable levels, resulting in huge environmental and financial savings.

By using solvent free and cold applied products, Belzona can safely seal SF₆ leaks, repairing the asset and protecting the environment. Plus, this durable system of expertly applied specialist materials can be applied in just one day.



What is Sulfur Hexafluoride (SF₆)?

SF₆ is a synthetic gas commonly used in medium and high voltage electrical equipment to insulate live electrical parts and switch the flow of electrical current on and off. This equipment is vital for power grid efficiency and is key for connecting the generation and storage of renewable energy.

Key Benefits of Belzona SF6-FIX:

- Online application, minimum downtime
- Rapid installation, short cure times
- Can reduce leaks to undetectable levels
- Removable for joint access
- Excellent corrosion protection
- Durable, long-lasting solution



Belzona 7311 applied to breather membrane with Belzona 9341 incorporated. 5x layers of Belzona 9371 utilising Belzona 1981 resin



Company Description

Belzona manufactures **repair materials and protective coatings** for restoring and maintaining industrial machinery, equipment, buildings, and structures.

Why is Stopping SF₆ Leaks So Important?

SF₆ is a highly potent greenhouse gas, with a warming potential 23,500 times greater than CO₂, making even small leaks a significant contributor to global warming. Studies show that 10% of circuit breakers leak, and 85% of those leaks are substantial. To combat this, Belzona SF6-FIX provides an effective, long-term solution to prevent environmental damage caused by SF₆ leaks.

Sustainable

SF₆ is a major contributor to global warming, highlighting the importance of stopping leaks with solutions like **Belzona SF6-FIX**.

High Performance

This long-term, durable solution seals leaks quickly and expertly and offers a cost-effective method.

Experience

With decades of experience in the power industry, Belzona specialises in repairing and protecting crucial machinery and equipment.

Belzona Know-How *in Action*

Power Distribution Substation, UK, 2023

Watch
the video:



Problem

KHIA ID: 9179

This particular electrical switch gear was leaking 70 kg (154 lbs) of SF₆ per month. This was not only harmful for the planet, but resulted in substantial fines for the Energy Company. The Customer sought a solution to mitigate the leak.



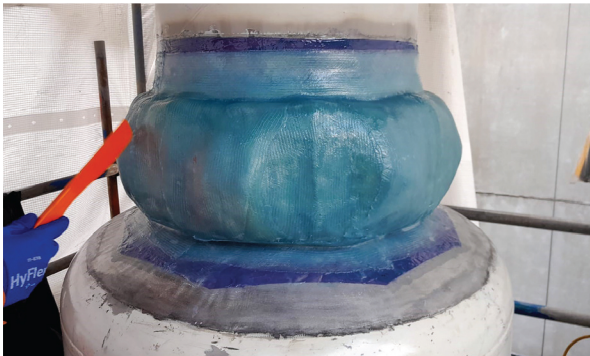
Flange leaking SF₆ gas



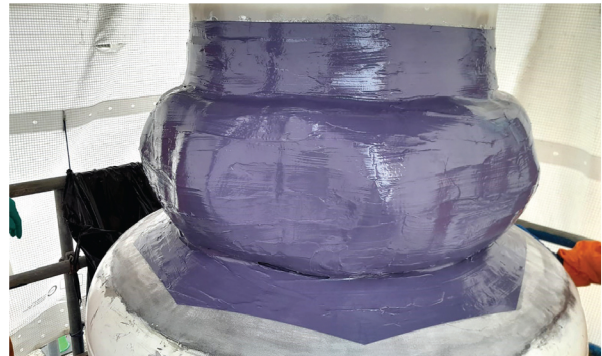
Prepared flange, ready for application

Solution

Belzona SF6-FIX was selected to address the leak, and the single day, online application was carried out. Six months later, the solution has still reduced the leak to undetectable levels. The Customer is now implementing Belzona SF6-FIX across additional national substations.



Repair in progress



Fully encapsulated flange

Gas Permeability

SF₆ Gas Permeability Testing

When tested in accordance with ASTM D1434-82, the Belzona SF6-FIX system would typically achieve: 9.58 ml/m² atm.day.