

BELZONA SOLUTION FOR TANK BASE SEALING - 38.5M DIAMETER

ID: 9809



PROBLEM

The annular plate of above-ground storage tanks is crucial for maintaining structural integrity, as it endures the highest mechanical stress. However, tank settlement and harsh environmental exposure can compromise the seal, allowing moisture and air to infiltrate—ultimately causing corrosion in the annular plate

APPLICATION SITUATION

A Belzona flexible membrane system, reinforced with a specialist sheet, encapsulates the tank base perimeter while its microporous structure allows trapped moisture to escape, preventing corrosion beneath the seal.

APPLICATION METHOD

The application was carried out in line with Belzona Know-How System Leaflet GSS-03. The annular tank base underwent thorough surface preparation, after which Belzona 3921 and 3911 primers were applied to the steel and concrete substrates. Bridging tape and Belzona 9321 reinforcement sheet were then installed to promote optimal adhesion of the top layer. To complete the system, Belzona 3111 was applied in two coats, delivering long-term sealing and weatherproof protection.

BELZONA FACTS

Thanks to its flexibility and water vapor permeability, the Belzona system outperforms conventional sealing materials, which are prone to premature failure. Designed for long-term durability, it is simple to apply and can be easily renewed when needed.

INDUSTRY

Power

LOCATION

Dubai, United Arab Emirates

APPLICATION DATE

February 2025

PRODUCTS

Belzona 3111 (Flexible Membrane)
Belzona 3911 (PSC Surface Conditioner)
Belzona 3921 (GSC Surface Conditioner)
Accessories

SUBSTRATE

Carbon steel

PHOTOS

1. Exposure to harsh environmental conditions can compromise the seal around the annular plate, allowing moisture and air to infiltrate the area.
2. The annular tank base was meticulously prepared, followed by the application of Belzona 3921 and Belzona 3911 primers to the steel and concrete surfaces, respectively.
3. Bridging tape and the Belzona 9321 reinforcement sheet were subsequently applied to ensure strong adhesion of the topcoat.
4. Belzona 3111 was applied in a two-coat system, providing durable sealing and long-lasting weatherproof protection.

For more examples of Belzona Know-How in Action, please visit khia.belzona.com

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