

Tank Base Sealing

As a result of adverse weather conditions or condensation, moisture can accumulate at the chime angle or track under the base of the tank. This can lead to corrosion problems, leakage or ultimate tank failure.

How It Works:

A flexible membrane system in conjunction with a reinforcement sheet encapsulates the circumference of the tank base whilst allowing any residual moisture to permeate through its microporous structure.



Belzona Solutions Can Help You:

- Reduce environmental damage
- Minimise downtime
- Eliminate safety issues
- Increase asset life



Base of a hydrocarbon storage tank sealed and protected with Belzona.

Company Description

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

Weather- and Waterproof

Prevents ingress of water, resists UV and is tolerant to movement through climatic variations.

Seamless and Microporous

Seals around irregular contours and dissimilar substrates, allows trapped moisture to escape.

High Performance

Offers excellent adhesion, quick back-to-service time and longevity.

Tested and Proven

Belzona membranes have been used by Supermajors in the Oil & Gas, Petrochemical, Power and other industries for many decades.

Belzona Know-How *in Action*

KHIA ID: 823

Problem

Materials engineers on-site had highlighted that a stress corrosion cracking environment could be created if water was allowed to ingress under the tank floor.



Solution

Belzona 3111 (Flexible Membrane) was applied to eight of their carbon steel tanks and three stainless steel tanks.

In-Service Inspection

Annular ring non-destructive inspection is possible through the membrane without needing to break it.

After continuously having to reapply failing tank base sealing systems, this tank refinery installed a Belzona membrane. Following inspection after 13 years in service, the Belzona system was found to be in excellent condition.



		Belzona 3111 (Flexible Membrane)		Belzona 3131 (WG Membrane)
Technical Data	Drying Time	30 minutes under good drying conditions		Resistant to wash-out immediately
	Shelf Life	5 years		12 Months
	Water Vapor Permeability after 7 days cure at 20°C (68°F)	30 g/m ² per 24 hours at 20°C (68°F) Permeance: 2.16 US perms		25 g/m ²
	Elongation after 7 days cure at 20°C (68°F)	20% lengthwise	100% crosswise	190%
	Tear Strength after 7 days cure at 20°C (68°F)	33.0 N/mm (188 pli) lengthwise	33.0 N/mm (188 pli) crosswise	34.3 N/mm (195 pli)
	Tensile Strength after 7 days cure at 20°C (68°F)	10.0 N/mm ² (1,450 psi) lengthwise	4.0 N/mm ² (580 psi) crosswise	6.4 N/mm ² (925 pli)
	Coverage rates (first layer includes reinforcement sheet)	First layer - dry film thickness of 10 mil (250 micron). Second layer - 6 mil (150 micron)		First layer - dry film thickness of 20 mil (500 micron). Second layer - 10 mil (250 micron)