

Drainage Pit Restoration

ID: 10299

Industry: Chemical & Petrochemical

Customer Location: AGIOS IOANNIS RENTIS

Application: TCC-Tanks and Chemical Containment Areas

Application Date: June 2026

Substrate: Concrete

Products: Belzona 4311 (Magma CR1), Belzona 4911 (Magma TX Conditioner)

Problem

The customer was experiencing deterioration of a concrete drainage pit caused by continuous exposure to water, cleaning chemicals and general service conditions. The degraded concrete surface had become vulnerable to further damage, increasing the risk of chemical ingress, accelerated deterioration and higher maintenance costs. The customer required a durable, chemically resistant solution that could be applied during a planned shutdown, restoring the integrity of the concrete while providing long-term protection and minimizing future maintenance requirement



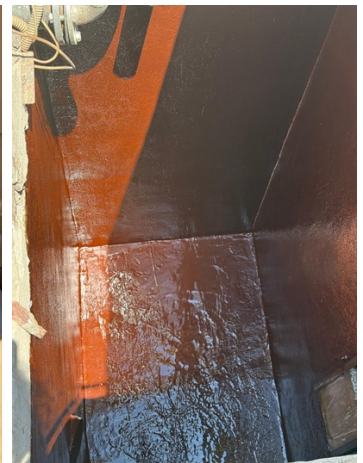
original condition of pit



During surface preparation



Storage of materials



Final finish

Application Situation

The Belzona solution provided a fast and reliable method of restoring and protecting the concrete drainage pit without the need for extensive civil works or replacement. The application was completed within a short shutdown period, minimizing disruption to the customer's operations. By protecting the concrete against chemical attack and future deterioration, the system will reduce maintenance requirements, extend the service life of the structure and help avoid the costs associated with recurring repairs or replacement.

Application Method

The drainage pit was initially cleaned using a high-pressure water jet to remove dirt, contaminants and loose material. The concrete surface was then mechanically abraded using a grinder to achieve a clean, sound substrate suitable for coating application. After surface preparation, Belzona 4911 (Magma TX Conditioner) was applied by brush as the primer. Once the primer had cured to the appropriate stage, Belzona 4311 (Magma CR1) was applied by brush and roller to the specified thickness, ensuring complete and seamless coverage of all concrete surfaces.

Belzona Facts

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


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Repair • Protect • Improve

The Belzona system was selected as a cost-effective alternative to concrete replacement, eliminating the need for extensive demolition and reconstruction works. Its excellent adhesion to concrete, outstanding chemical resistance and seamless finish provide long-term protection against deterioration in aggressive service conditions. The solution minimized downtime, reduced future maintenance requirements and extended the service life of the drainage pit, delivering significant long-term cost savings for the customer.

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