

Belzona 5815 Protects Aquaduct Field Joints

ID: 10289

Industry: Water / Wastewater

Customer Location: Italy

Application: VPF-Valves, Pipes and Fittings

Application Date: June 2026

Substrate: Carbon steel

Products: Belzona 2911 (Elastomer QD Conditioner), Belzona 5815

Problem

A new section of aqueduct was constructed to replace an old section that dated back to Roman times. The welded joints needed protection after being buried underground. Belzona proposed a solution that met the client's requirements. Initial tests carried out by BS SRL and Belzona Ltd showed that the coating had sufficient peel adhesion to HDPE and satisfied the client's needs.



Stock pipe lengths



Post welding, pre-application.



Applied Belzona 5815 being inspected with a thickness gauge.



Finished application.

Application Situation

The client needed a solution for buried pipelines that would protect the welded joints from corrosion while remaining flexible enough to accommodate small pipeline movements. The coating had to comply with EN10290 standards, which Belzona 5815 met. Test results showed a small improvement in adhesion when Belzona 2911 was used as a primer to improve the bond between the plastic surface and the epoxy coating.

Application Method

The pipes were lined with HDPE, which was removed on-site after the welding work was completed at each joint. The welded areas were then prepared using an MBX bristle blaster. After surface preparation, Belzona 2911 and Belzona 5815 were applied by hand using brushes.

Belzona Facts

Belzona 5815 was chosen for its flexibility, being able to withstand impacts, and flex with pressure differential within the pipe line.

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ISO 9001:2015

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FS 695214

manufactured under an ISO

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