

WASTEWATER REPAIR AND PROTECTION WITH BELZONA

ID: 8468



PROBLEM

Internal corrosion of the pipelines has led to severe degradation of the substrate including heavy pitting. In some areas, the loss of wall thickness is reaching a stage where the structural integrity of the pipeline would be compromised. Action is needed to repair the existing damage and prevent further corrosion.

APPLICATION SITUATION

Sewage water pipelines at a waste water treatment facility.

APPLICATION METHOD

The application was carried out using a modified version of Belzona System Leaflets VPF-01 and VPF-02. After surface preparation by grit blasting to remove corroded material, free to surface of contaminants, and provide a surface profile, the pitted areas were repaired with Belzona 1111 and Belzona 4111. Finally, a 2 coat system of Belzona 5811 was used to protect from further corrosion.

BELZONA FACTS

Belzona was chosen as the materials are VOC free and easy to apply in-situ. Belzona 4111 was used to rebuild some areas with shallow pitting as it allowed for a faster application and reduced cost to the customer.

INDUSTRY

Water / Wastewater

LOCATION

Spain

APPLICATION DATE

November 2020

PRODUCTS

Belzona 1111 (Super Metal)
Belzona 4111 (Magma-Quartz)
Belzona 5811 (Immersion Grade)

SUBSTRATE

Steel

PHOTOS

- 1 - Outside of the pipes to be repaired
- 2 - Corroded condition inside the pipe
- 3 - Surface prepared and rebuilding in progress
- 4 - Coating completed

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