

Wastewater repair and protection with Belzona

ID: 8468

Industry: Water / Wastewater

Customer Location: Spain

Application: VPF-Valves, Pipes and Fittings

Application Date: November 2020

Substrate: Steel

Products: * Belzona 1111 (Super Metal) ,
* Belzona 4111 (Magma-Quartz) ,
* Belzona 5811 (Immersion Grade) ,

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.



Photograph Descriptions

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

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.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015

Belzona products are

FS 695214

manufactured under an ISO

ISO 14001:2015

9000 Registered Quality

EMS 695213

Management System.

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