

# BELZONA PROTECTS PIPELINE FROM MILLSCALE WEAR

ID: 3890

Industry: *General Industry*  
 Application: *VPF-Valves, Pipes and Fittings*  
 Substrate: *Steel*  
 Products: *\* Belzona® 4111 (Magma-Quartz),*

Customer Location: *Steel plant, South of France*  
 Application Date: *September 1990*

## Problem

*Corrosion and erosion in the lower third of the pipeline caused by abrasion from the millscale .*



## Photograph Descriptions

- \* Application of Belzona® 4911 after gritblasting the substrate ,
- \* Beginning the application of Belzona® 4111 ,
- \* Application in progress ,
- \* Creating steps with Belzona® 4111 on a sloping area of the pipeline, in order to facilitate the inspection ,

## Application Situation

500m long and 1.5m diameter Raw Water pipeline loaded with millscale.

## Application Method

The application was carried out in accordance with Belzona Know-How System Leaflet VPF-2.

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.

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## Belzona Facts

Following a trial over several months, competing with an alternative solution (which did not last), Belzona 4111 was chosen to protect the lower sections of the pipeline. Its fast cure speed reduced the repair duration. The application was carried out over 5 years: 100m/year (45 buckets/year). After the inspections carried out in 2000, 2001 and in 2002, the product is still in perfect condition. To aid access/application steps were created with Belzona 4111 in a skloping section of the pipeline.

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