BELZONA TAKES THE HEAT OFF

ID: 8453


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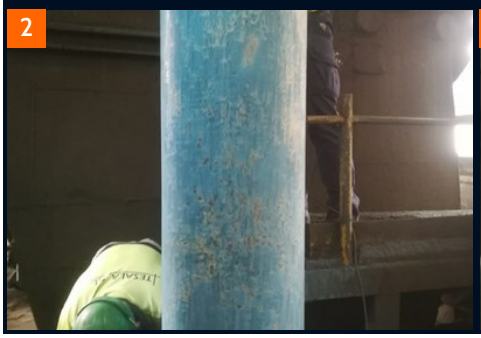
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PROBLEM
Due to the contamination and dirt found in the environment close to the pipeline, the insulation material had degraded and was no longer fit for purpose. Unfortunately, this left the hot surface of the pipeline exposed, causing a hazard to personnel working in the area. The pipeline operated at between 80C and 100C. The surface must be below 60C to be considered safe.

APPLICATION SITUATION
Hot pipeline operating in a heavily contaminated and dirty environment, in a copper production plant.

APPLICATION METHOD
Manual preparation tools were used to remove contamination, such as corroded material, from the substrate, and to create a rough surface to aid the adhesion of the Belzona 5871. Belzona 5871 was then applied at a 1.5mm wet film thickness to achieve a dry film thickness of 4.5mm.

BELZONA FACTS
The key factor in this situation was to minimise the downtime of the equipment. Due to the single layer application of the Belzona 5871, the application was carried out, and sufficient curing time achieved, within a 6 hour downtime window. Alternative solutions included reinstatement of traditional insulation, which would have taken much longer to install, therefore increasing the downtime. The final surface temperature after the Belzona 5871 was fully cured was below the 60C limit, making it safe for personnel to work in the area.

INDUSTRY
Steel & Metal Processing

LOCATION
Huelva, Spain

APPLICATION DATE
November 2020

PRODUCTS
Belzona 5871

SUBSTRATE
Carbon Steel

PHOTOS
1. Pipe prior to application

2. Surface preparation completed

3. Application completed

4. Surface temperature after curing