THERMAL EXPANSION/CONTRACTION IS NO MATCH FOR BELZONA

ID: 325

PROBLEM
The concrete has a different coefficient of thermal expansion/contraction than the metal pipe. The result of this difference, is the erosion of the metal pipe at the interface, and subsequent leaks.

APPLICATION SITUATION
Steel wastewater process pipe through concrete floor.

APPLICATION METHOD
The application was carried out in accordance with Belzona Know-How System Leaflets VPF-11b and FPA-7.

BELZONA FACTS
Belzona® 4211 (Magma Stop) was used to stop the active leak, without interrupting the process flow. Once the leak had been stopped, Belzona® 2131 (D&A Fluid Elastomer) was used to encapsulate the repair perimeter and absorb the movement of the two substrates. It is a good idea to rough cut around the perimeter of the Belzona repair and pour the elastomer in this joint to allow for movement.

INDUSTRY
Pulp & Paper

LOCATION
Pulp and paper company in Alabama, U.S.A.

APPLICATION DATE
1994

PRODUCTS
Belzona 4211 (Magma-Stop)
Belzona 2131 (D&A Fluid Elastomer)

SUBSTRATE
Cast iron and steel.

PHOTOS
1. View of pipe leaking at the floor penetration
2. Repair completed with Belzona 4211 (Magma Stop) and Belzona 2131 (D&A Fluid Elastomer)