

Rebuilding Concrete Columns in a Cooling Tower.

ID: 9241

Industry: Steel & Metal Processing
Application: WPA-Wall Problem Areas
Substrate: Concrete
Products: Belzona 4141 (Magma-Build), Belzona 5811 (Immersion Grade)

Customer Location: Gary, Indiana
Application Date: September 2023

Problem

The customer faced deterioration of concrete columns within their cooling tower, resulting in exposed reinforcement bars. This type of damage can accelerate corrosion, weaken structural integrity, and increase the risk of further deterioration if left unaddressed.



Deterioration of the columns



Surface preparation on concrete



Application of Belzona 4141 for repair



Application of Belzona 5811 for protection

Application Situation

The primary goal was to ensure the secure sealing of rebars while achieving a revitalized appearance. Implementing Belzona not only reduced downtime but also provided superior protection compared to alternatives, delivering long-term durability and contributing to significant cost and time savings.

Application Method

Specific techniques, such as floats and a wood mold, were employed for the best finish. After curing, the product was sanded for an even better result.

Belzona Facts

The benefits of Belzona 4141 include its lightweight composition suitable for application on vertical and overheated surfaces. It offers rapid curing and outstanding adhesion properties to concrete.

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

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