

# BELZONA IMPROVES PROTECTION AT BASE OF CHIMNEYS

ID: 2946

**Industry:** Power  
**Application:** ENC-Engines and Casings  
**Substrate:** Steel and concrete  
**Products:** \* Belzona® 3211 (Lagseal) ,  
\* Belzona® 5811 (Immersion Grade) ,

**Customer Location:** Municipality, Sweden  
**Application Date:** September 2011

## Problem

*The chimneys are made of steel and are resting on a concrete base. Moisture between the chimney and the supporting concrete resulted in corrosion taking place on the chimney as well as a high risk for frost heave in the concrete.*



## Photograph Descriptions

- \* Chimney Base for the furnace before the repair ,
- \* Application of Belzona® 3211 ,
- \* Reinforcement sheet incorporated into the Belzona® 3211 coating bridging the steel/concrete junction ,
- \* The finished application with Belzona® 5811 providing corrosion protection on the steel chimney ,

## Application Situation

Three Chimneys for furnaces.

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflets GSS-3 and TCC-5. After grit blasting the repair area, the steel was protected with Belzona® 5811 and the Belzona® 3211 reinforced system was applied across the junction between steel and concrete.

## Belzona Facts

Belzona micro-porous Membrane systems are extensively used to provide weather-proofing of tank bases so as to prevent under-tank corrosion, the same arrangement and problems as found on these chimneys. The system prevents water entering whilst allowing any existing moisture to dry out.

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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manufactured under an ISO  
9000 Registered Quality  
Management System.

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