

# BELZONA CONTRIBUTES TO PUMP EFFICIENCY PROGRAMME IN STEEL PLANT

ID: 1583

Industry: *General Industry*  
Application: *CEP-Centrifugal Pumps*  
Substrate: *Steel*  
Products: *\* Belzona 1111 (Super Metal) ,*  
*\* Belzona 1341 (Supermetalglide) ,*

Customer Location: *Steel plant, Hungary*  
Application Date: *2010*

## Problem

*Damage due to erosion and corrosion caused high efficiency loss. The 12 selected pumps are 15 years old. But there are another 60 pumps 30-36 years old which have certainly higher efficiency loss as the tested ones.*



## Photograph Descriptions

- \* Pump surface before coating ,
- \* Grit blasted impeller ,
- \* Coated parts ,
- \* Coated housing ,

## Application Situation

Continuous casting plant of a steelmill has over 60 pumps used to provide cooling water to casting rolls, burner injectors of blast furnace and other different areas. 12 pumps were identified for coating and efficiency monitoring.

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflet CEP-10.

## Belzona Facts

Steelmill installed new digital control system for the proper monitoring of power consumption, volume and water pressure. Before and after result: -10-12% less power consumption +12,5% more pressure +12,5% higher head. The energy saving in a year covers

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ISO 9001:2015  
FS 695214  
ISO 14001:2015  
EMS 695213

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manufactured under an ISO  
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the cost of the coating.

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