BELZONA REPAIRS WIRE DRAWING MACHINE

ID: 5637

Industry: *General Industry*	**Customer Location:** *Copper Wire Industry, Northeastern USA*
Application: *ENC-Engines and Casings*	**Application Date:** *2011, 2012, 2013*
Substrate: *Steel*	
Products: ** Belzona 1341 (Supermetalglide) ,*	

Problem
Corrosion cells in the drawing machine interfere with proper gaging and wire conductivity which can ruin an entire run of a specialilty cable, in addition, affect plant production and cause quality problems with the finished product.

Photograph Descriptions

* Overview of the wire drawing machine ,
* Corrosion cells in the sump of the drawing machine ,
* Blast cleaned surface before coating ,
* Close up of coated surface after 2 years of operation, still perfect! ,

Application Situation
Cells in the copper wire drawing machine. Customer manufactures woven copper wire assemblies from very small gage communication wire to large gage under sea cable. Thick gage raw copper is drawn in multiple gangs (up to 36 in number) through a wire drawing machine to the desired gage and then twisted and insulated.

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Application Method

The substrate was cleaned by blasting to a near white finish standard SSPC-10. After surface preparation, Belzona 1341 was properly hand applied in accordance with the relevant IFU.

Belzona Facts

The customer had previously used Belzona and had no doubts about product performance. The drawing machines are integral to the company's production and Belzona was considered as an important enhancement to their entire production line over several years so that the entire production line was protected. The 36 wire drawing machine includes 100's of mandrels and rollers of 75 feet in length.