BELZONA KEEPS METAL CHURNING

ID: 1410

Industry:	*General Industry*	Customer Location:	*Metals Plant, North Carolina, USA*
Application:	*GSS-Gaskets, Seals and Shims*	Application Date:	*February, 2008*
Substrate:	*Stainless Steel*		
Products:	** Belzona® 2221 (MP-Fluid Elastomer) ,*		

Problem

Electrical shorts in the coil wrapped around the cylinder caused a loss of current responsible for producing the magnetic field used to stir the molten titanium.




Photograph Descriptions

* Stirring jacket wrapped in coil. ,
* Cylinder prepared ready for application of first coat. ,
* First coat being applied. ,
* Cylinder after 18 months still "churning" away. ,

Application Situation

Magnetic Cylinder, called a Stirring Jacket, used to mix molten Titanium.

Application Method

Application was carried out in accordance with Belzona Know-How System Leaflet GSS-1. Approximately one mile of #6 wire which supplied the current was removed. After surface preparation, one coat of Belzona® 2221 was applied, the coil was then re-wrapped, and a further coat of Belzona® 2221 was applied over the coil.

Belzona Facts

The metals plant was not able to isolate the electrical short. It was more cost effective to insulate the jacket rather than to replace the coil. This job was done two years ago and remains in service. The plant was extremely happy to begin production again in such a timely manner.