

BELZONA SEAL SURVIVES THE ACID TEST

ID: 1107

Industry: Chemical & Petrochemical
Application: TCC-Tanks and Chemical Containment Areas

Customer Location: Petrochemical Plant, Torun, Poland
Application Date: June 2005

Substrate: Fibre Reinforced Composite, Steel
Products: * Belzona® 4181 (AHR Magma Quartz) Belzona® 4341 (Magma CR4) ,

Problem

The column operated with acids, trichloroacetic aldehyde, dichloroethane and trichloroethane at 20-100C and is protected by a graphite fibre reinforced laminate. This lining was additionally protected with acid proof bricks. In the first year of operation it emerged that there was no possibility of sealing the column manhole after opening during routine inspection, and a suitable protective system was needed.



Photograph Descriptions

- * The column situation ,
- * Installing acid resistant bricks with Belzona® 4181 ,
- * The completed Belzona® 4181 application ,
- * The completed Belzona® 4341 application ,

Application Situation

Process Column

Application Method

Application was carried out in accordance with Belzona Know-How System Leaflet TCC-3. The internal lining was removed in both manhole areas. The first layer of protection used Belzona® 4181 in conjunction with acid resistant tiles. The flange faces were also protected with a lining of Belzona® 4181 composite additionally covered with Belzona® 4341 coating.

Belzona Facts

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

Belzona products are
 manufactured under an ISO
 9000 Registered Quality
 Management System.

www.belzona.com


BELZONA®
 Repair • Protect • Improve

Application of the Belzona chemical resistant system allowed the column to be protected in its arduous continual service (360days per year). Inspection in June 2008 showed the Belzona to be in perfect condition.

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

Belzona products are
manufactured under an ISO
9000 Registered Quality
Management System.

www.belzona.com



Copyright © Belzona International Limited 2025