

Cold Bonding with Belzona at Two Major Tank Farms

ID: 9387

Industry: Chemical & Petrochemical
Application: TCC-Tanks and Chemical Containment Areas
Substrate: Carbon steel
Products: Belzona 1111 (Super Metal)

Customer Location: Netherlands
Application Date: January 2022

Problem

Traditional welding was impossible as taking these sites offline and emptying the vessels would have required a costly shutdowns which was not a viable option. So, seeking a welding alternative, the customers chose the distributors innovative cold bonding solutions.



Application in progress



Brackets being bonded in place



Brackets bonded in place



Solar panels fitted

Application Situation

The combination of Belzona cold bonding solutions and ATEX vacuum grit blasting can be used in all industries where Belzona products are used. By using ATEX vacuum grit blasting and Belzona materials, the customer can create the surface pre-treatment as required by Belzona on the IFU, without having to stop production and without having to create tents, additional scaffolding or other measures to be able to blast. In combination with Belzona materials, Perspect is able to offer a complete solution without the need for a hot working permit, or the environment being de-zoned.

Application Method

The first customer, a renowned global infrastructure provider, wished to make their operations more sustainable by installing solar panels on the top of their tanks. However, before the panels themselves could be implemented, cable ducts and supports needed to be installed across the entire structure. Such a large number of panels required around 500 brackets be cold bonded on to the live oil tanks, as hot work was out of the question.

The second customer, a global leader in tank terminal operations, required the installation of 660 brackets on to live kerosene tanks. This was required due to recent legislative changes which mandated the installation of extra fire extinguishing pipes. With safety as their top priority, they sought a swift and dependable solution. It was crucial that the chosen method could install the required brackets without disrupting the facility's operations or incurring the unnecessary expense of a shutdown.

Belzona Facts

Completing the project without a hot work permit saves a lot of downtime for the asset owner.

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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