

Repairing and coating of the concrete Sulphur tank

ID: 8483

Industry: Chemical & Petrochemical
Application: TCC-Tanks and Chemical Containment Areas
Substrate: Concrete
Products: * Belzona 4981 (Magma HT Conditioner) ,
* Belzona 4181 (AHR Magma-quartz) ,
* Belzona 1392 (Ceramic HT2) ,

Customer Location: Slovakia
Application Date: 2020

Problem

The concrete underground tank for liquid Sulphur was damaged. The longer wall of the tank crashed down. 100 % liquid Sulphur in this process can have a temperature up to 150°C and customer needed quick and quality repair.



Photograph Descriptions

- * 1. Customer needed to repair concrete underground tank ,
- * 2. After the Belzona 4981 application ,
- * 3. Belzona 4181 application ,
- * 4. Sulphur concrete tank ready to use ,

Application Situation

Liquid Sulphur is a secondary product in the fuel products manufacture. After several processes, clean solid Sulphur is sold on in the market.

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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Application Method

The application was carried out in accordance with Belzona System Leaflets TCC-9 and TCC-15. Damaged and loose concrete was removed. Then we used the blasting process. We made sure the surface of the concrete is clean/dry/free of any loose contaminants and then we used to condition the surface with your 4981. The eroded vertical surface of the tank was rebuilt with Belzona 4181. In the end Belzona 1392 has been applied.

Belzona Facts

If the coating Belzona 1392 is post cured in service at 150° C (the ramp up rate did not exceed 30° C per hour). Belzona 1392 has very good heat and acid resistance and a very high max HDT (199°C) and will be resistant to the liquid Sulphur. After nearly a year in service the site was revisited and the repair was found to still be in good condition, performing as the client required.

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