

Belzona 4111 Repairs the Floor Drain

ID: 9181

Industry: *General Industry* Customer Location: *Tulsa Oklahoma*
Application: *FPA-Floor Problem Areas* Application Date: *December 2023*
Substrate: *Concrete*
Products: *Belzona 4111 (Magma-Quartz), Belzona 4911 (Magma TX Conditioner)*

Problem

Damaged concrete at the edge of a floor drain trough.



Previous failed repair material removed.



All loose material removed and the surface prepared with a hand grinder on both the concrete surfaces and metal surfaces.



Belzona 4911 Conditioner applied liberally.



Belzona 4111 application completed.

Application Situation

The damaged area had been repaired with another material which was not bonded to the concrete, which resulted in an additional tripping hazard as it was now raised up. This is a water test area for large vessels and requires a smooth floor to roll carts over and sees a lot of foot traffic as well. An uneven floor in this area poses a huge danger to both employees and equipment.

Application Method

The previous repair material was removed in large pieces with a screwdriver as it was not bonded to the concrete. A wire wheel on a drill was used to remove all of the loose concrete debris. A 4" hand grinder with a stone grinding wheel was used to remove the rust from the metal frame and exposed rebar, as well as to remove as much of the surface of the concrete as possible. The Belzona 4911 Conditioner was liberally applied ensuring that the full area of application was fully coated into the uneven surface. The Belzona 4111 was mixed following the Instructions For Use and packed in by hand to ensure there were no air pockets or voids, and then finished using a steel concrete trowel.

Belzona Facts

This application used roughly one half of a 15 kg unit of Belzona 4111, and has eliminated the need for future repairs in this area for a couple hundred dollars of material. It was ready to go back into service within 24 hours, and the risk of employee injuries or equipment damage has been eliminated. The customer has already identified several other areas within their facility that will be repaired using Belzona 4111.

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ISO 9001:2015
FS 695214
ISO 14001:2015
EMS 695213

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