

BELZONA BULKFILL REBUILDS HOSPITAL TRASH PAD

ID: 6140



PROBLEM

Concrete in roll-off area was deteriorating due to weight and dragging of trash containers. Large hole was a below ground conduit vault. Rain water was entering the vault area and causing electrical hazards.

APPLICATION SITUATION

Concrete trash pad for roll-off dumpsters

APPLICATION METHOD

The application was carried out according to a modified version of Belzona System Leaflet FPA-1. The areas were cleaned and prepared to remove contamination and deteriorated concrete and to square up areas. Dust, dirt, and debris were vacuumed away. A 11/2" thick steel plate was bonded into place, using Belzona 1121. Stainless steel reinforcement was inserted into concrete vault walls, using Belzona 1121. Top side of steel plate was roughened. Belzona 4154 was mixed with clean, crushed granite and used to fill area to within 1 inch of the top of the repair area. The area was then conditioned with Belzona 4911 and top coated with 1" of Belzona 4131 to produce a finish that is smooth and level with the concrete substrate.

BELZONA FACTS

Customer required minimal out of service time frame, and was looking for a long lasting, durable solution. Solution had to be Engineer certified. Solution had to handle weight of loaded dumpster trucks and roll-offs. Reasons Belzona was selected was attributed to the confidence in team based upon other previous application successes, ability to provide engineered solution, minimal downtime and right solution. Alternative technologies customer had in mind – welding and concrete pour, which did not meet downtime requirements and engineers were skeptical of concrete pour methodology.

INDUSTRY

Buildings & Structures

LOCATION

Roanoke, VA, USA

APPLICATION DATE

October 2015

PRODUCTS

Belzona 1121 (Super XL Metal)
Belzona 4154 (Bulkfill Resin)
Belzona 4131 (Magma-Screed)
Belzona 4911 (Magma TX Conditioner)

SUBSTRATE

Concrete

PHOTOS

1. Damaged concrete of the trash pad
2. Removing and scarification of the damaged concrete
3. Application of Belzona 4154 and 4131 as a top coat
4. Complete application

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