



Unconventional Solutions, Inc.
Partnering with Your Industry to Repair - Protect - Upgrade

April 2023

Leading Edge

METAL CASE STUDY: Food Manufacturer Plant Clarifier

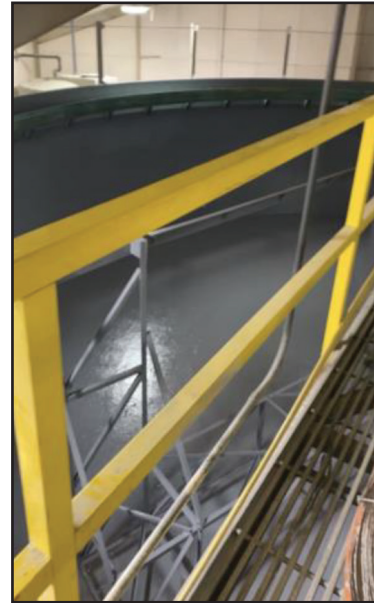
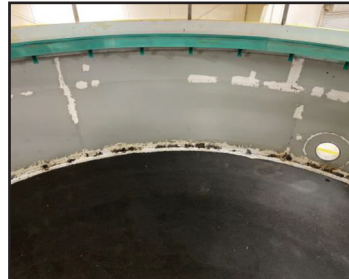
This Food Manufacturer had a Wastewater Clarifier that was starting to see corrosion. The owner wanted to stop the vinegar environment by providing a protective coating.

First Unconventional Solutions fixed the cracks in the concrete with **RP-C by Duromar**. Next, we sealed the concrete with **Duromar DF-1303** and put one coat of **red Duromar HPL 4320** and another coat of **gray HPL 4320**. The two-coat system will protect the concrete from the acid in the vinegar.

Duromar RP-C is a 100% Solids, Zero VOC concrete resurfacing compound. It is used to fill voids and holes in concrete prior to the application of a protective coating or lining. RP-C offers excellent adhesion, a long overcoat window, and great ease of application. Sold in 2 parts. 1 gallon.

Duromar DF-1303 is a clear, 100% solids, Zero VOC, fast-set penetrating concrete priming sealer. 1 gallon.

Duromar HPL 4320 is a high functionality, 100% solids novolac material, designed to provide optimal resistance to the most demanding chemicals including concentrated sulfuric acids and other inorganic acids. Available in Gray and Red colors.



**BEST USED AS A TWO COLOR SYSTEM!
APPLY RED FIRST, THEN GRAY.**

During regular maintenance checks, if you start to see **RED**, you will know it is **time to re-coat** before extreme wear/damage takes place.

Concrete Stair Repair

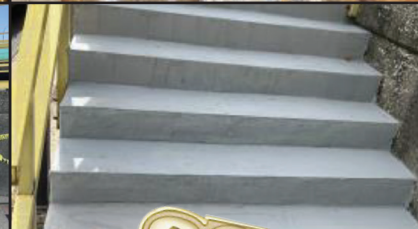
This wastewater Treatment Plant wanted improve plant safety to mitigate the risk of trip, slip and fall issues. The steps were original from 1956 opening of plant and are over 66 years old.

The plant wanted to start having grade school kids do field trips to tour and it start with this project first.

UNCONVENTIONAL SOLUTION: We started by removing all the loose damaged concrete and listening for any hollow sounds in the concrete. We used a grinder and scuffed up the rest of the damaged areas. Then we used leaf blower to remove all the rough debris. Once the area was clean, we used **Resimac 576 Quartz Screed** primer activator and poured it into the primer base and stirred it with a drill motor until it was a uniform color. We primed two stairs at a time so we could move around the project with ease.

Using a five gallon bucket, we mixed the **576 Quartz Screed Primer** with half of the aggregate, then we

mixed the remaining aggregate with a big concrete mixer and the drill motor. We scraped around the edges and bottom until thoroughly mixed. Using a premeasured wood form, we used tape and release agent on the front of the stairs so it would not stick. Reminder: slant the stairs away from the structure so rain runs off smoothly and ice will not form with colder temperatures.



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USI Dates to Remember

June 9

USI Dayton-Cincinnati Golf Outing (Miamisburg, OH)

June 16

USI Wixom, MI Golf Outing (Milford, MI)



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