

ONTARIO
**KNOW-HOW
IN ACTION**

BELZONA[®]
GREAT LAKES

002/2021

**PETROCHEMICAL
PROCESS TANK
CHOCKING**


BELZONA[®]
Repair • Protect • Improve
AUTHORIZED DISTRIBUTOR

THE PROJECT

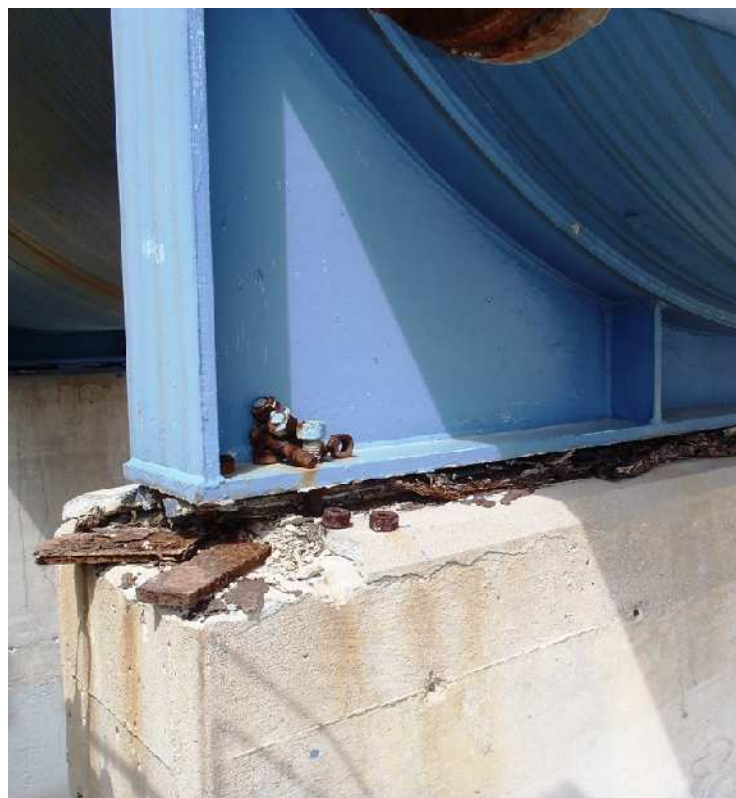
TANK CHOCKING
SEPTEMBER, 2017

Based in Courtright, Ontario a leading global manufacturer of hydrogen and nitrogen products for clean energy, emissions abatement, fertilizer, and other industrial applications.

The plant processes up to 1.0 million tons of nitrogen products for agricultural and industrial use each year. They had several horizontal storage tanks that were mounted on concrete plinths. The interface between the steel mounting plate of the tank and the concrete base was shimmed using timber and chocked using a cementitious grout.

ALIGNMENT & ANCHORAGE

Over time the environmental exposure and the general operation of the tanks have made the cementitious grout begin to fail. Overall the poor performance of the existing chocking material and timber shims, meant the tanks did not have a secure interface between the steel and concrete surfaces. In some areas a significant gap could be seen, meaning that increased pressure was being applied to other parts of the foundation, and alignment and anchorage were at risk.



THE SOLUTION

Belzona 7111 was specified to replace the existing chocking materials, it is a cost-effective, two-part, 100% solids chocking and grouting material designed to endure the physical and thermal shock common in such industrial environments as the plant.

This pourable compound is engineered to spread out evenly across irregular surfaces and ideal for creating foundations for heavy equipment where alignment and anchorage are essential.

100% SOLIDS



You can see in the application images that it has connected the damaged and irregular surface of the concrete substrate with the steel tank base.

Belzona 7111 exhibits excellent non-shrinking properties, high impact, and compression strength. This material is ideal for pouring foundations, shimming or chocking large industrial equipment where alignment and anchorage are critical. Belzona 7111 flows easily into the application area conforming to irregularities and filling voids to create the perfect chock.