

# Belzona Repair on Concrete Dam

ID: 6343

**Industry:** Buildings & Structures  
**Application:** WPA-Wall Problem Areas  
**Substrate:** Concrete  
**Products:** \* Belzona 4131 (Magma-Screed) ,  
\* Belzona 4141 (Magma-Build) ,  
\* Belzona 4911 (Magma TX Conditioner) ,  
\* ,

**Customer Location:** Michigan, USA  
**Application Date:** September 2016

## Problem

The damaged area is partially submerged and the entire area frequently wet from wave action. The dam has been declared a historic site so repair materials need to closely match the appearance of the original material.



## Photograph Descriptions

- \* 1. Damaged area at waterline ,
- \* 2. Work in process. ,
- \* 3. Finished repair ,

## Application Situation

The face of the 100 yr old concrete hydro dam was damaged at the waterline due to ice and wave action.

## Application Method

A temporary dyke was created around the area needing repair. Compressed air was used to blow the standing water off the

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

Belzona products are  
manufactured under an ISO  
9000 Registered Quality  
Management System.

[www.belzona.com](http://www.belzona.com)

  
**BELZONA**<sup>®</sup>  
Repair • Protect • Improve

damaged area. The surface was prepped with chisels and a bristle blaster. Dust and loose debris were blown off. The 4911 was applied and the repair was made with 4141 to just below the desired finish level. Finally a coat of 4131 was applied to finish the work .

## Belzona Facts

Belzona was chosen because of its rapid cure, non-shrink and superior adherence characteristics. Magma build was chosen due to the need to work without forms and Magma Screed for color and finish.

---

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

Belzona products are  
manufactured under an ISO  
9000 Registered Quality  
Management System.

[www.belzona.com](http://www.belzona.com)

