

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

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

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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.

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