

BELZONA PRESERVES CONCRETE PILES OFFSHORE

ID: 6379

Industry: Oil & Gas
Application: SOS-Ships and Offshore Structures

Customer Location: Gulf of Mexico, USA
Application Date: November 2016

Substrate: Concrete
Products: * Belzona 4141 (Magma-Build) ,
* Belzona 4151 (Magma-Quartz Resin) ,
* Belzona 9371 (Reinforcement Sheet) ,

Problem

At an aging facility off the Louisiana coast, a gas lift station is experiencing fractures in their concrete piles under the foundation. Uneven stress causes some piles to bear more load as weight is transferred off other piles.



Photograph Descriptions

- * 1. Fractured concrete pile. ,
- * 2. Exposed rebar. ,
- * 3. Pile conditioned with Belzona 4911 and rebuilt with Belzona 4141. ,
- * 4. Pile encapsulated with Belzona 4151/9371 composite wrap. ,

Application Situation

Offshore application. Marshland soil settlement is causing concrete piles to show stress fractures. Exposed rebar is corroding.

Application Method

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
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Belzona 4141 was used to bulk fill into large cracks and gaps. Belzona 9371 was saturated with Belzona 4151 and used to wrap the rebuilt pile to reinforce.

Belzona Facts

Without the Belzona solution, the client would have an extensive and costly process to remove and replace the old pilings. Equipment would have to be removed from the foundation, and the foundation would have to be cut open to provide access for a pile driving operation.

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