Know-How*in Action*

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PRIMARY CRUSHER BASE REPAIRED WITH BELZONA 4111 AND BELZONA 4151

CUSTOMER
Copper Mine, Brazil

APPLICATION DATE
2018

APPLICATION SITUATION
Base of a primary crusher at a mine.

PROBLEM
Excessive vibration of the crusher caused the concrete base to crack which could potentially compromise the functionality of the machinery.

PRODUCTS
Belzona 4111 (Magma-Quartz)
Belzona 4151 (Magma-Quartz Resin)
Belzona 4911 (Magma TX Conditioner)

SUBSTRATE
Concrete

APPLICATION METHOD
Using an impact hammer drill, the first two layers of concrete were removed to reach the steel reinforcement structure. Prior to application of Belzona 4911, area was cleaned and degreased with a solvent, compressed air was also used to have the entire repair area free of loose debris and dust. The perimeter of the repair area was rebuilt with a regular mix of Belzona 4111, and after that, a fluid mix of Belzona 4111 with extra Belzona 4151 was used to fill the void and self-level the base of the equipment.

BELZONA FACTS
The Customer was very pleased with the system implemented because it reduced the vibration of the equipment. This is one of the solutions offered on a regular basis for local mining plants in Brazil, they are success cases that give the Customer confidence and reliability.

PICTURES
1. Damaged base of the crusher.
2. The perimeter of the base rebuilt with a regular mix of Belzona 4111.
3. A fluid mixture of Belzona 4111 and Belzona 4151 resin used to fill in the void and have it self-level in the base.
4. Foundation of primary crusher repaired with Belzona 4111 and Belzona 4151.

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