Know-How*in Action*

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SAVING THE BELT WITH BELZONA!

CUSTOMER
WA, USA

APPLICATION DATE
June 2017

APPLICATION SITUATION
2 - 50" Conveyor belts lifting grain from rail cars to silos.

PROBLEM
Corn and soybeans falling as the conveyor belt lifts the grains up was causing enough abrasion on the backside of this vertical belt to wear off a complete layer of rubber leaving the layer of the fiber exposed. The wear is worse right next to the joint actually wearing through the fiber layer.

PRODUCTS
Belzona 2911 (QD Conditioner)
Belzona 2111 (D&A Hi-Build Elastomer)
Belzona 9341 (Reinforcing Sheet)

SUBSTRATE
Rubber and Fiber

APPLICATION METHOD
The application area was pressure washed to remove debris and grain dust. Used a handheld wire brush to roughen the fiber surface as the majority of the rubber layer was loose and disbonded and was removed. The outline of the proposed application area was marked and Belzona 2911 was applied and allowed to dry as per the IFU. Duct tape was applied over the joint seam to allow the application to bridge rather than adhere. The outline was also taped off just inside of where the conditioner was applied. Only one unit of Belzona 2111 was mixed at a time, the first batch used to wet out the application area, the second added some volume as well as wetting out Belzona 9341 (Reinforcing Sheet). The last batch smoothed out the application and covered the reinforcing sheet completely.

BELZONA FACTS
Only 3 units of Belzona 2111 were used during this project. The The alternative solution was to replace the belts which reach over 10 stories straight up and would cause extended downtime. This repair took 4 hours and will protect the belt from the highly abrasive grain.

PICTURES
1. The silos.
2. Belt preparation and Belzona 2911applied.
3. First layer of Belzona 2111 applied.
4. Application complete.

1.


2.


3.


4.


ISO 9001:2008
Q 09335
ISO 14001:2004
EMS 509612

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

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