Belzona Elastomer Used to Repair Torn Conveyor Belts at Recycling Plant

ID: 8126

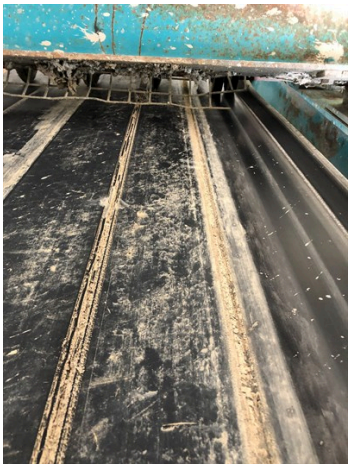
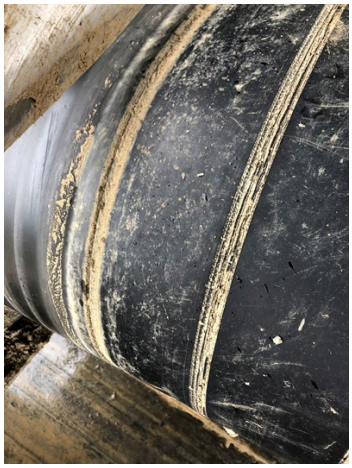
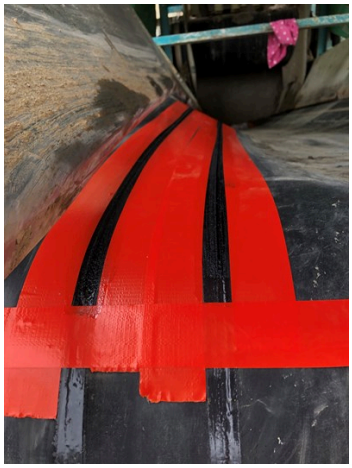
Industry: *General Industry*
Application: *SHM-Solids Handling Machinery*

Customer Location: *Recycling Plant - Zurich, Switzerland*
Application Date: *April 2019*

Substrate: *Reinforced rubber*
Products: ** Belzona 2311 ,*
** Belzona 9341 ,*
** Belzona 2911 ,*
** Belzona 9111 ,*

Problem

Straps of the conveyor belt had been replaced on a few weeks earlier and the client had no replacements in stock. This damage had occurred on a conveyor belt in the stage of the recycling process, during a busy period of the year. Therefore, the conveyor belt needed to be repaired as soon as possible.


Photograph Descriptions

* Damage along the length of the conveyor belt ,
* Heavy scoring and tears resulted in shutdown ,
* The repair area masked off for application of Belzona 2311 ,
* The Belzona repair allowed for a return to service the very next day ,

Application Situation

A recycling plant specialising in urban mining, extracting and reusing building materials from previous sites e.g. concrete. At the facility, a large conveyor belt had become caught on a defective scraper, causing a linear tear over 32m along the rubber.

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

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

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Application Method

The application was carried out in accordance with Belzona Know-How System Leaflet SHM-1. Any loose parts of the rubber were first cut away, before the substrate was prepared using a rotary wire brush. The entire area was subsequently cleaned using Belzona 9111. The defected areas were masked off and conditioned, before Belzona 2311 was applied to the surface. This is a fast-curing material that is cold-curing and requires no specialist application tools. To reinforce the repair Belzona 9341 (a flexible and strong farbic mesh) was embedded into the elastomer and then encapsulated with a secondary application of Belzona 2311.

Belzona Facts

Due to the fast turnaround required, the Distributor carried out the repairs on the same day. The application took 7 hours to complete compared to replacement, which would caused approximately 3 times the amount of downtime. This allowed the plant to run the conveyor belt the very next day. This belt is still in use after 9 months without any problems at the repair points.

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