

BELZONA ELASTOMER USED TO REPAIR TORN CONVEYOR BELTS AT RECYCLING PLANT

ID: 8126



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.

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.

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 fabric 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 have 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.

INDUSTRY

General Industry

LOCATION

Recycling Plant - Zurich, Switzerland

APPLICATION DATE

April 2019

PRODUCTS

Belzona 2311
Belzona 9341
Belzona 2911
Belzona 9111

SUBSTRATE

Reinforced rubber

PHOTOS

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

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