ELI-FLEX

Case Study

January 16th 2002

Vulcan Materials

Mission Valley – San Diego California.

The Problem – Longitudinal Structural Damage also known as Critical Junction Failure

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The belt damage consisted of a deep gouge along a 7foot length of a 150foot belt. Material was falling through numerous holes causing a safety hazard, dust problems and buildup of material under the belt. The damage was caused by age and running material with excessive weight over a belt with an idler configuration designed to handle a lighter load The belt was old but the screen was being decommissioned in 8 months time and the working life of the belt had to be extended or a new belt would have to be purchased for only 8 months. A new belt would cost approximately $3000 including installation.
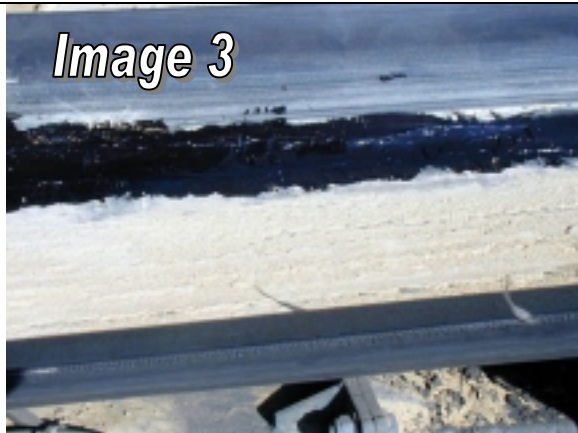
The Solution

Repair the damaged area to prevent material falling through. Eli-Flex was selected for it's ease of use and the cost saving. Two kits of 150 gram Eli-Flex were used. The repair took 30 minutes in total. Total cost – $120 and 30 minutes labor. No downtime was incurred because the belt was repaired during scheduled plant maintenance.

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ELI-FLEX

Image 1

The belt damage consisted of a deep gouge along a 7 foot length of a 150 foot belt. Material was falling through numerous holes causing a safety hazard, dust problems and buildup of material under the belt.

Image 2

The damage was caused by age and running material with excessive weight over a belt with an idler configuration designed to handle a lighter load.

Image 3

Eli-Flex was applied after cleaning the belt with a firm wire brush.

Image 4

Total repair time was 30 minutes including cleaning and applying Eli-Flex.

Image 5

Two kits of 150 gram Eli-Flex were used. The repair took 30 minutes in total. Cost – $120

Image 6

The depth of the repair was approximately 1/2 inch. The belt was operational within 3 hours of the repair