

How Flexco Helps a Major Shingle Manufacturer Keep a Lid on Repair Costs

Industry

Shingle manufacturer for residential and commercial buildings

Application

Process conveyors

Product

Clipper® 4 1/2 RHTX Fasteners

Objective

Minimize splice wearout and replacement in highly abrasive manufacturing environment

Conveyor Detail

Belting: Blue ruff top, 1/4" (6mm) thick with mechanical fastener rating of 180 P.I.W. (30 kN/m), in widths of 9" (225 mm) and 10" (250 mm).

Configuration: Horizontal



Problem

For a USA-based shingle manufacturer, costs associated with conveyor downtime were going through the roof. Abrasion from the asphalt and ceramic-coated mineral granules used in shingle manufacturing was quickly wearing down conventional stainless steel fasteners. Nearly a dozen horizontal conveyors were used in the plant to convey shingle materials from one production stage to another. So a failed splice in one conveyor often impacted production throughout the entire manufacturing process. Downtime costs were measured in both lost production and in the manpower required to repair the belts.

Solution:

Featuring a rectangular high-tensile hook, the Clipper® 4-1/2RHTX fastener has a higher tensile strength than conventional stainless steel wire hook fasteners. As a result, it exhibits superior strength and wear resistance characteristics – even in highly abrasive and abusive applications. It's also designed for easy installation.

Result:

An initial test was performed using the Clipper® 4-1/2RHTX fastener on one conveyor line. The results were encouraging and plant managers decided to install the RHTX on belts throughout the plant. The operating life of the RHTX fasteners has been approximately twice that of stainless steel hooks, resulting in a 50% decline in downtime associated with fastener replacement and repair.



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Application Profile

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