

MANUFACTURING

Case Study – Cape Cod Siding Manufacturers. Industry: Manufacturing

Problem: After being used to stain wood siding, the water based stain is then filtered through a clay compound to remove the stain and leave disposable water. While the water seeps through the clay, it drips onto two large 81x chains that pull the clay through the processing area. The chain sits in the water which has a high PH at this point and only moves once every half hour. The mixture of moisture with a high PH and the steel chain has created problem corrosion and seizing of the chain.

Effect: When the chain begins to corrode too badly, the pins and bushings start to seize leading to increased wear on the electric motor pushing the chain. Also there is increased wear on the sprockets and the chain itself drastically shortening the life span of the chain. This particular chain was being replaced once every six months, many times more than should normally be necessary.

Recommendation: Attempts at using several different products had failed. It was so severe that the customer assumed that no product would work and refused at first to even try a Krown product. After testing, it was suggested that KP-53 be used to loosen the already rusted chain that was in service. Continued use of the KP-53 would help to continue pushing the moisture out of the affected areas and extend the chain's life by lubricating the pins and bushings even though there was rust already present. It was suggested that KP-53 be applied once per week.

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(Case Study – Cont.) Off Shore Drilling Company Industry: Off Shore Drilling

Result: The already rusted chain that was in place was in it's sixth month of use, ready to be replaced that month. As a result of using KP-53 the chain loosened and began to run smoothly again. Because of this result, the chain replacement was postponed. At the end of another six months, it was postponed again. This chain was eventually replaced some three years after it's original replacement date was scheduled.

Cost Saving:

Chain replacement: \$385 per change out, saved a total of 6 chain changes

Labor: 6 hours at \$45/hour

Downtime: 6 hours

Total Cost saving: \$8790.00 plus downtime

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