

STONHARD *Solutions*

Epoxy floor and lining system ends corrosion problems

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Problem

In 1985, Strathcona Paper embarked on a program to improve the quality of its paper products. Management of the Napanee, Ontario plant felt that their objective could be best achieved by preventing contamination of the paper and boxboard during its manufacture. It was believed that abrasive and corrosive conditions in the processing areas and on the floors were a major problem in this regard.

Solution

Engineers at Strathcona identified and keyed in on three production areas that needed attention: the filler machine chest, the hydropulper dump chest, and the hydropulper clean stock chest. These areas were experiencing severe wear and deterioration. On the advice of a manufacturer and installer of flooring materials, management adopted a resurfacing program that utilized an epoxy floor and lining system.

The first steps taken on this project consisted of emptying the chests of stock and cleaning them thoroughly with high-pressure water. Next, all of the 5,000 sq. ft. surfaces were sandblasted to remove any remaining debris and to smooth rough areas. The walls and floors of the chests were then lined with a two-component, epoxy-based priming system to ensure a secure bond between substrate and overlayment.



Stonhard epoxy flooring used at Strathcona Paper

Once the primer dried, a sprayable epoxy lining was applied to the walls and then trowelled to a smooth finish. This armour-like lining protects the chest walls from high temperatures and abrasion.

The floors were protected using a multi-functional liquid epoxy resin formulated to provide superior heat resistance and resistance to a wide range of chemicals. Finally, all surfaces were rolled with a high-performance, temperature-resistant epoxy coating to increase the abrasion-resistant properties of the system.

Results

Management of Strathcona Paper agrees that a major step was taken toward improving the quality of the company's paper products. The chests are now resistant to attack from chemicals and abrasion; they have a smooth seamless surface that never interferes with the flow of materials. Just as important, the floors are easier to keep clean.

The Stonhard Difference

Stonhard is a world-leading manufacturer and installer of high-performance polymer floor and lining systems designed for tough commercial and industrial environments requiring protection against corrosion, impact, abrasion and continuous daily wear. We deliver long-lasting, high-performance systems for tough environments. We offer customized solutions to satisfy the most demanding design specifications and work with you directly from start to finish. You are protected with a single source warranty on both product and workmanship. Known around the world for excellence, the Stonhard name means quality products and unmatched service.

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polymer floor and lining systems,
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