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Project: Steel Roller Stand Repair

The Problem

The Technical Directors of this Steel Mill approached 3M Thortex for a high performance repair system for a steel mill roller stand, which produces thick steel sheets from heated ingots.

The gap between the sliding plates (1.8ft x 6ft) and the frame of the stand had increased to 20mm due to the heavy impact caused by the speed and heavy weight of the steel ingots being rolled. The gap was affecting the accuracy of thickness of the steel sheet.

Efficient production at the mill and timely fulfillment of current orders depended on the activity of this stand.

It could not therefore be shutdown for more than one week.



Solution

The roller stand was suitably prepared, which included blast cleaning the frame of the stand and the reverse side of the sliding plates. Guides for the plates were made using theodolites, after which each of the eight sliding plates were bonded/secured to the frame using Metal-Tech XG in a continuous 24 hour operation.

This refurbishment project was completed over 7 years ago using 661 lbs of Metal-Tech XG. The client has since reported no further problems.

Metal-Tech XG is a two component, multipurpose, synthetic metal repair compound that has been specifically developed for a wide range of metal repairs, which require good mechanical Strength and where an extended working life during application is essential.

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