

LOCTITE*Adhesives for more
reliable assemblies***APPLICATION CASE HISTORY****No. 263**

Fixmaster® High Performance Quartz Prevents Multi-Day Shutdown For Floor Repair

New Floor More Durable Than Original

Situation:

A tier three automotive company which manufactures brake pistons was having problems with a section of concrete flooring. This 50-square foot area was located at a point in the production line where large steel racks of product come off an elevator. Although the floor was only one year old, a standard grade concrete had been used and the steel cart wheels ground down the surface of the floor. Each of these carts holds about 1,000 pieces of product costing several dollars each. The concrete had become so rough, that the carts were difficult to move without tipping. In fact, several hundred pieces were being lost each day after falling off the carts.

Typically, this type of floor repair would involve 2-3 days to remove the concrete flooring with a jackhammer, pouring of a new concrete floor, and dry time. A shutdown for this length of time would cost tens of thousands of dollars, not including the actual cost of the repair.

Solution:

Loctite® Fixmaster® High Performance Quartz is a highly-filled quartz epoxy system designed for restoring old concrete or for the maximum protection of new concrete under typical dry service temperatures of -29° to +66°C (-20° to +150°F). The damaged areas were cut and chipped out. Then Loctite High Performance Quartz was applied by hand using a screed to level the material and a steel trowel to smooth it down.

Results:

What would normally have taken a shutdown of 2-3 days, was accomplished overnight with a loss of only two shifts. The repaired areas were much more durable than the original concrete floor, and were smoothed and polished to allow for easy movement of the carts. After an annual inspection, the flooring showed no sign of wear or loss of material.

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