

LOCTITE*Adhesives for more
reliable assemblies***APPLICATION CASE HISTORY****No. 261**

Floor Repaired With Loctite® Magna-Crete® Reopened In Less Than Three Hours

Company avoids multi-day shutdown

Situation:

A manufacturer of investment-casted aircraft and turbine parts was operating on a high-volume capacity of three shifts a day, seven days a week. When the concrete ramp leading to a supply warehouse began to break down and re-bar became exposed, maintenance engineers were concerned. Not only was this a hazard to personnel, but fork truck operators who brought in loads of high-quality metal alloy ingots actually lost loads due to the deteriorated condition of the ramp. Because of the high standards in the aircraft industry, if an ingot is damaged, contaminated or loses weight, it has to be scrapped. With each ingot costing hundreds of dollars, this was unacceptable.

Scheduling time for repair would be costly, as well. Typically, this type of floor repair would involve 2-3 days to remove the 5 x 15 foot concrete flooring with a jackhammer, pour the new concrete floor, and wait for it to dry. A shutdown for that length of time would cost the company tens of thousands of dollars, not including the actual cost of the repair.

Solution:

Loctite® Fixmaster® Magna-Crete® is a two-component, rapid-setting concrete repair and grouting system. Magna-Crete is chemically-resistant to most common liquids and chemicals, and bonds to concrete, wood, glass, steel, and other construction materials. It has a 15-minute working time, with a functional cure in 1-2 hours.



The area was prepared using a rotary hammer, a circular saw with a diamond blade, and a vacuum. Loctite Magna-Crete was installed using a screed and a steel trowel.

Results:

Instead of a three-day shutdown, Loctite Magna-Crete allowed the company to reopen the ramp to traffic in less than three hours.

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