

LOCTITE*Adhesives for more
reliable assemblies***APPLICATION CASE HISTORY****No. 259**

Aggregate Company Learns Value of Loctite® Reliability Training & Loctite® Pipe Repair Kit

Saves \$1,600 in repair costs, avoids wetlands clean-up costs

Situation:

A large aggregate company in Colorado was scheduled for a Loctite Seminar on Manufacturing Reliability Training. During the seminar, several training modules were discussed, including pipe repair. The Maintenance Foreman indicated that they had a unique pipe leakage problem and took the Loctite Sales Representative and the Distributor Representative from Kaman to see the leak.

The Company had a 12-inch diameter drainage pipe that had been nicked in two places by a loader during some earth moving. The resulting 3-inch hole left a large leak of sand and slurry water. This was a gravity drain and therefore, no fluid pressure existed in the pipe. Normally, this type of leak would not present a contamination issue. However, it was draining into a designated wetland and was seen as a costly item. If the leak continued, the company would be required to clean up the wetland area by removing the top four inches of soil and replacing the grass.

The Maintenance Foreman had already called in a pipe repair consultant and received a quote of \$1,000 in parts and \$1,100 in labor. This included cutting, inserting new flanges and new bells.

Solution:

The Loctite® Pipe Repair Kit contains everything needed to make reliable temporary repairs of metal, plastic, and composite pipes:

- urethane-impregnated fiberglass tape (which is activated by water),
- Loctite® Fixmaster® Metal Magic Steel™ epoxy stick
- gloves



Fixmaster Metal Magic Steel is a versatile and easy-to-use repair compound that cures under water and adheres to most damp surfaces. Steel-filled for tough maintenance repairs, Metal Magic Steel applies like a putty and cures to a metal-like finish in just ten minutes. It's perfect for patching pipes, filling castings, and bonding broken parts.

Results:

After Manufacturing Reliability Training on Pipe Repair, the maintenance crew was able to repair the leaky pipe at a cost of about \$60 for the product and \$450 of internal labor costs. The company saved \$1,600 by making the repair themselves rather than hiring the outside pipe repair consultant, and avoided the cost of cleaning up the wetlands area.

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