

LOCTITE*Adhesives for more
reliable assemblies***APPLICATION CASE HISTORY****No. 250**

High Impact Wearing Compound Eliminates Casing Replacement; Saves \$1,500 Per Pump

Situation:

Centrifugal pumps are used to pump slurry that contain 1%-99% solids. As this material is slung off the impeller, the casing receives a tremendous amount of wear from the rock, gravel, sand, and water. Over time, the casing needs to be replaced. One particular Loctite customer rents various size pumps to other companies. With the number of pumps they had in stock, replacing the casings every three to four months was becoming very costly. That's when they called on Loctite to help find a way to extend the life of the casings.

**Solution:**

Loctite® Nordbak® Wearing Compounds combine the superior wear properties of ceramic and the convenience of two-part epoxies to protect equipment from corrosion, abrasion, and other wear encountered in harsh industrial environments. Nordbak High Impact Wearing Compound is a rubber-modified epoxy that protects against sliding abrasion and impact to 250°F.

The casing of this centrifugal pump (above) has been worn down by slurry material. Replacing the casing would cost the customer \$2,000. With Loctite® Nordbak® High Impact Wearing Compound, casing replacement is eliminated indefinitely. Just one container of High Impact coats the casing of a typical size pump and costs less than \$500.

The surface of the pump's casing is prepared by sand blasting to a white metal with a profile. The High Impact product is thoroughly mixed and troweled by hand onto the prepared surface. The product is then allowed to cure before re-assembling the pump.

**Results:**

Replacing the casing on the centrifugal pump would have cost this customer \$2,000. But using Loctite® Nordbak® High Impact extended the life of the casing and cost less than \$500. A cost savings of over \$1,500 every three to four months adds up to an annual savings of \$6,000 per pump.

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