

# RETAINING SOLUTIONS FOR BEARINGS

Reducing downtime and increasing efficiency. With LOCTITE®



## SITUATION

A cement manufacturer needed to repair a shaft on a large fan that had been damaged from a loose, spinning bearing. It would have taken five days of downtime to repair the shaft through hardfacing and machining. Hardfacing can distort and weaken the shaft, and machining does not always prevent against future fretting corrosion to the bearing fit.



## LOCTITE® SOLUTION

After an assessment, the LOCTITE® Engineering Solutions Expert provided training on a new repair method using LOCTITE® products. After cleaning and removing the main bearing, LOCTITE® 638™ Retaining Compound was applied to the shaft and the bearing was slipped into the proper position. Retaining compounds fill voids, prevent fretting corrosion and evenly distribute high load stress.



## BENEFITS

The LOCTITE® solution was easily performed by the maintenance personnel and the fan was up and running in only 8 hours—a large reduction in downtime from hardfacing and machining. This solution also prevented future damage to the shaft and maintained the fit over the life of the bearing.