



Waste Treatment Plant Reduces Waste by 90% with LOCTITE® Solutions



SITUATION

A wastewater company experienced harsh wear of their solids and liquids mixer impellers. Impellers were run until extensively worn out and then replaced. Purchasing new impellers became costly, which left the company searching for a new solution. They decided to work with LOCTITE® to evaluate alternatives.

LOCTITE SOLUTION

The LOCTITE® Technical Sales Engineer reviewed the operating requirements and recommended a total solution.

The steel impeller was sandblasted clean. Worn areas were rebuilt with LOCTITE® EA 3478™ Superior Metal epoxy. Then one coat of blue and a second of grey brushable ceramic protective wear coating were applied – LOCTITE® PC 7227BL™ and LOCTITE® PC 7227GY™. This two color coating provides a preventive maintenance wear indicator. The impeller can be scheduled for maintenance when the blue layer of wear coating becomes visible. In this trial the protective wear coating had minimal wear even after 18 months.



BENEFITS

This waste treatment plant mixer performance improved because impellers are now serviced when the blue wear prevention coating appears instead of being run with pitted, corroded vanes. The facility also documented cost savings well over \$100,000 by repairing instead of replacing impellers and because the LOCTITE® wear coating extended the service time.

Product	Size	IDH
LOCTITE® EA 3478™	1 lb kit	209822
LOCTITE® PC 7227GY™	2 lb kit	209826 767175
LOCTITE® PC 7227BL™	6 lb kit	2395759

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