

Epoxy Used for Rehabilitation of Large-Diameter Pipes

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Problem: A 370-foot-long 87- by 136-inch elliptical pipe and 541-foot-long 96-inch-diameter pipe both had severe crown corrosion at San Jose Water Treatment Plant. An assessment estimated the remaining service life range of the pipes between 0 and 12 years. A high priority was given to performing a structural lining on these pipes.

Solution: Michels Pipeline recommended using geopolymer for repairing badly deteriorated spots, followed by coating the pipes with Neopoxy high-strength corrosion-resistant NPR-5304 epoxy resin. The project owner decided to line only the top half of the pipes due to the more serious corrosion in that area. The Michels crew applied epoxy using plural component spray equipment at 125 to 150 mil thickness.

Result: The project was completed successfully. The coating successfully passed the spark and adhesion tests, and the pipes were back in service within a few days. Through the application of the epoxy, the lifespan of the large-diameter pipes was extended by approximately 50 years. 510-782-1290; www.neopoxy.com

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