

Municipal Sewer & Water

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Epoxy Used to Rehab Corroded Large-Diameter Pipe in San José

Problem: The San José-Santa Clara Regional Wastewater Facility had 900 feet of 84-inch-diameter pipe with severe crown corrosion. Several areas had extensive concrete spalling with exposed rebar. An assessment estimated the remaining service life of the pipe between 0 and 12 years. A high priority was given to coating the pipe to lengthen its lifespan.

Solution: Michels Pipeline patched badly deteriorated spots with cementitious material, followed by coating the pipe with Neopoxy high-strength corrosion-resistant NPR-5303 epoxy resin. The project owner decided to line only the top 200 degrees of the pipe due to the more serious corrosion in that area. The Michels crew applied epoxy at a thickness of 150-250 mils using plural component spray equipment.

Result: The project was completed successfully. The coating successfully passed spark and pull testing. Several of the pull test results were over 1,500 psi (project specs required 250 psi minimum), with a clean concrete break rather than a separation of the coating and substrate. The pipes were back in service within a few days. Through the application of the Neopoxy NPR-5303, the lifespan of the large-diameter pipe was extended by approximately 50 years. 510-782-1290; www.neopoxy.com

Link: https://www.mswmag.com/online_exclusives/2024/01/epoxy-used-to-rehab-corroded-large-diameter-pipe-in-san-jos%C3%A9

