



EPOXYTEC™

FRP Solutions for Infrastructure Rehabilitation

When selecting rehabilitation solutions for corroding infrastructure, fiber-reinforced polymer (FRP) systems have numerous advantages. In particular, Epoxytec's CPP Sprayliner FRP System provides the ease of application that contractors need in a sprayliner, the cost savings and minimal downtime that owners desire, and the product dependability, strength, and durability that engineers require.

In the case of this privately owned country club located in south Florida, the owner was searching for a cost-effective, durable solution to protect and maintain this 13,000 sq. ft. tank with a 500,000 gallon capacity. Epoxytec's FRP system provided the features all parties involved were looking for.

THE PROBLEM

The concrete tank showed signs of severe deterioration, with exposed rebar and extreme H₂S damage. The existing coating required removal, and a structural solution to reinforce the concrete was essential. In addition, protection from future damage was a crucial element in this rehabilitation project.

PRODUCTS THAT OUTPERFORM

Epoxytec's CPP Sprayliner FRP System is a two-component moisture-insensitive reinforced epoxy. The product is blended with reinforcing agents and various fibers, making it highly adhesive and with structural properties. It also provides chemical resistance and is a 100% solid. It can be sprayed conveniently from a plural-component heated spray rig. The material can be sprayed with ultra-high build, between 1/16" and 1/4" (62.5–250 mils) per pass. Once cured, this FRP system creates a reinforcement lining with high strength and flexural properties for partially or fully deteriorated structures. CPP Sprayliner is conveniently sold in 10-gallon and 100-gallon kits.

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Featured Products

CPP Sprayliner



Project Information

Location

Florida

Completion Date

Spring 2019

Structure

Tank

Applicator

Exceletech Coatings and Applications





FRP Solutions for Infrastructure Rehabilitation (cont.)

THE APPLICATION

The first and most important step, as with any application, is preparation of the substrate. The surface of this tank was blasted with high-pressure water jetting. The substrate was then resurfaced using Epoxytec's Mortartec Silicate and Mortartec Ceramico. Next, Epoxytec's CPP Sprayliner FRP System was spray-applied as a top coat. Any seams were filled using Epoxytec's Uroseal 45V.

FINAL LOOK

This project was completed on time and all parties involved were satisfied with the results. The protection provided using Epoxytec's proven FRP system will enhance the life of this infrastructure and has brought it back to "like new" condition. Using Epoxytec's spray-applied FRP system allowed for efficient installation time, while also providing quality, durability, and strength for years to come.

