

ADVANCED POLYMER COATINGS

case study

TriFLEX™ Helps Industrial Coating Teams Improve Throughput, Reduce Complexity, and Accelerate Project Completion Through Single-coat Efficiency.

A Gulf Coast refinery piping project required a coating solution that could withstand demanding industrial service conditions while also helping reduce the time, labor, and complexity commonly associated with traditional multi-coat systems.

The project involved shop-applied piping coated in a controlled environment, where efficiency, consistency, and turnaround time were key priorities. Instead of using a traditional three-coat approach, the team selected TriFLEX™, APC's single-coat direct-to-metal coating system.

Traditional industrial coating systems often require multiple products, separate application steps, and extended drying windows between coats.

For busy coating shops, those added steps can create scheduling pressure, increase inspection requirements, and introduce more opportunities for rework or delays.

On this project, TriFLEX™ helped simplify the process by reducing the application from three coats to one. That streamlined approach allowed the coating team to move the project through the shop more efficiently while still providing the protection needed for demanding industrial piping service.

Customer Benefit

+ increased throughput
+ reduced labor
+ DTM technology
+ lowered VOC's
+ reduced rework

TriFLEX™



Measured Results

Applicators reported fewer defects and lower inspection costs. The coating team also confirmed improved consistency, faster cycle times, and reduced rework.

TriFLEX™ helps industrial coating teams simplify application by replacing a traditional three-coat process with a single-coat direct-to-metal system. That means less complexity, fewer opportunities for error, and a faster path to project completion.

The system also supports impact resistance, UV durability, and corrosion protection while allowing teams to use existing PPE and application equipment.

TriFLEX™ gives coating shops and asset owners a more efficient way to protect critical assets, helping reduce downtime, costs, and operational complexity.

Project Outcomes

- **30% increase in coating shop throughput**
- **Dry to touch in 2 hours**
- **Dry to handle in 6 hours**
- **75% VOC reduction**
- **60% reduction in labor and inspection costs**
- **20% savings on coating materials**
- **50% decrease in applied coating cost per m^2**