Kraton Formosa Polymers Corporation (KFPC) Calls on ChemLine® for Protective Lining

ChemLINE®
CASE STUDY

The ChemLine® coating system protects many different areas of industrial, processing, and power facilities, as well as storage tanks, transportation equipment and secondary containment areas. This work includes a number of specialty projects, such as these storage and mixing vessels for this producer of specialty polymers, at its facility in Taiwan.

New carbon steel vessel waiting for lining with ChemLine® 784/32 system at the KFPC facility in Taiwan

Carbon Steel Storage and Mixing Vessels Employ ChemLine®

The Kraton Formosa Polymers Corporation (KFPC) facility, located in Mailiao, Taiwan, is a joint venture between Formosa Petrochemical Corporation and Kraton Polymers LLC.

The company operates a 30,000-metric-ton-per-year hydrogenated styrenic block copolymer plant, manufacturing hydrogenated styrenic block copolymers, ethylene, and other chemicals.

As part of this operation the company employs a number of carbon steel vessels storing chemicals and also mixing proprietary polymers. The vessels operate at temperatures between 60°C to 120°C.

KFPC asked Advanced Polymer Coatings (APC) to provide the ChemLine® 784/32 coating system to line four new vessels for corrosion protection. This encompassed an area of 791 square meters. The project was handled by Mr. Jean S. CHENG, from J.S. CHENG & Co., the ChemLine®/APC representative in Taiwan.

A total of four vessels are ready to be lined with ChemLine® 784/32

Setting up the tenting and staging for the blasting operation

Grit-blasting to proper surface profile

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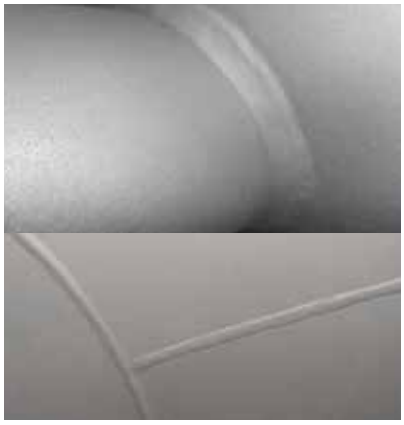
APC presented an applicator for the project, as well as having a ChemLine® inspector on-site during the application process. First a tented area was set up where the coating and heat curing work would be performed. The tanks were prepped by grit-blasting the interiors according to specification. A ChemLine® 784/32 base coat was first applied (red colour), followed by stripe coating, and then a top coat of ChemLine® 784/32 (grey colour). Both the base coat and top coat were applied at 7-8 mils, for a total thickness of the 12-14 mil system. Following application of the ChemLine® 784/32 coating, the vessels were then heat cured at 121°C (250°F) for six hours.

The vessels have been in service at the facility in Taiwan for the past year and are operating as expected.

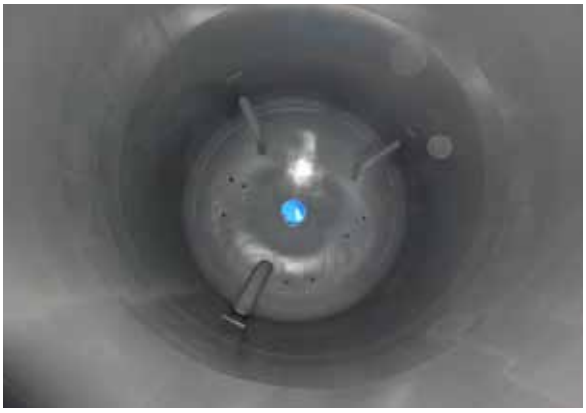
Inspection of blasting



Proper profile of carbon steel surface with all welds and seams inspected

Applying the base coat of ChemLine® 784/32 (red colour)

Spark testing of finished top coat of ChemLine® 784/32 (grey colour)



Finished tank coating project

Close up views of the smooth surface of ChemLine® 784/32 coating at a total combined thickness of 12-14 mils