PROJECT PROFILE

GALVANIZING FACILITY

STAYFLEX™ Lead Paint Encasement Systems

Location: Philadelphia, PA

Project Size: 68,000 square feet

KEY BENEFITS:

- Project cost was substantially lower than any other coating option
- Job completed in half the time compared to abrasive blasting and repainting
- Excellent air, moisture and chemical resistance of the STAYFLEX™ System provides superior long-term protection against corrosive acid exposure
- The STAYFLEX™ System was installed during evenings and on weekends to minimize interference with other contractors on jobsite.

PROJECT OVERVIEW:

An east coast galvanizing facility needed a long-term corrosion control coating system to protect all primary and secondary structural steel. The owner had made the decision to abrasive blast and paint with a two-part epoxy system. However, before the project started the contractor discovered the existing paint contained lead. As a result, the cost to paint doubled due to the stringent OSHA & EPA work practices required when blasting lead paint containing materials.

The STAYFLEX™ Lead Paint Encasement System was chosen because the system is applied without any surface preparation and its 25+ year proven performance in corrosive and wet environments. STAYCELL™ 245-2.0 spray polyurethane foam insulation was first applied at 2" to all primary and secondary steel. Due to expansion, the STAYCELL™ fills all concealed spaces, metal-to-metal contact points and horizontal ledges where paints can't physically be applied. The STAYCELL™ foam insulation was then coated with 1/16" STAYFLEX™ 2505 thermal barrier coating to provide a durable, washable, seamless and fire retardant finish required by building codes for interior applications of polyurethane foam. The final installed product is a seamless, fully adhered, insulated structural composite assembly, having similar strength to high performance products such as fiberglass tanks, chemical piping and corrugated fiberglass (FRP) sheet.

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