



Federalsburg, MD Bakery

Asset preservation coating and remediation project executed by Alpine Painting & Restoration Services of Chalfont Pennsylvania

On April 28th 2010 Kraft Foods purchased the Federalsburg Maryland baking facility from General Mills

Upon inspection of the newly purchased facility there were many issues on the plant exterior that needed to be addressed and left alone would compromise the asset's longevity

General project scope included as follows:

- The Preparation & Coating of all bakery exterior corrugated metal siding
- The Preparation coating of bakery exterior CMU (Cinderblock) with a solvent based acrylic water proofing coating
- Installation of all safety colors to hand railings, crash posts, high pressure natural gas farm and relief stacks and all safety ladders and fall arrest cages
- Complete and total remediation and restoration of 3 flour silos to prevent further corrosion and disintegration of asset





The following presentation will illustrate the remedial measures Kraft Foods had undertaken to preserve the asset as well as improve employee morale

Part 1: Illustrates preparation, remediation, and restoration of bakery exterior, metal siding, and CMU Masonry walls

Part 2: Illustrates flour silos remediation and restoration

Part 3: (Supplemented 1/5/11)Illustrates finish coating on conveyor bridge tunnel and newly fabricated signage and installation of same on silo one



*Please press space bar or left click to advance presentation



Storefront metal restoration on main entrance

The following Images illustrate the urethane finish in place on restored storefront metal:



Before



After





Masonry restoration of front elevation and new sign install



Image illustrating cleaned, restored, and waterproofed masonry as well as removal of General Mills signage and installation of new Kraft Foods signage





Miscellaneous images of various substrates prepared for coating installation





The following images illustrate the degree of water intrusion



Water intrusion in CMU (cinder block) walls at various locations along different elevations prior to installation of pigmented water proof coating





Progress images of fluorourethane coating being installed on prepared corrugated siding





Images of prepared and finished siding



Before



After





Images of the high pressure natural gas valve and regulator farm painted with safety yellow urethane to comply with present day ANSI color coding for safety and visibility



Before



After





Following images illustrate the installation of OSHA safety yellow urethane to roof access ladders and fall arrest cages in compliance with present day ANSI and OSHA regulations





Various images illustrating water blasted and prepared conveyor bridge tunnel



After water blasting process was completed a thorough inspection was performed on the exterior skin revealing various stages of severe deterioration.

As of this writing entire skin of bridge tunnel is being repaired and resided with new corrugated siding and will be coated upon completion.





Various images of fluorourethane coating system being applied to newly installed metal skin of conveyor bridge to maintain color continuity between bakery & conveyor bridge



Below images depict finished coating system on bridge skin





Silo Coating and Restoration

Mild Steel Silos Exhibited a Marked and distinguishable degree of corrosion where if allowed to continue the asset integrity would be compromised.

Project was executed with a keen sensitivity of day to day plant operations with a strong focus on present day OSHA regulations.

Alpine Painting engineered a corrosion control system comprised of:

- High pressure water blast prep as well as machine tool preparation with a 6 to 10 mil anticorrosive polyamide epoxy base coat installation
- 4 to 7 mil fluorourethane finish coat system.
- Kraft Foods White color installed





Facility Flour Silos Prior to Remediation and Restoration





High pressure water blasting in process



Distance shot of silo 3 being water blasted with operator using an 85 foot articulating boom



Image illustrates operator working in compliance with all present day OSHA safety standards



Additional image of water blasting prior to coating install





Silo Coating in Process



Progression image of silos being coated with polyamide epoxy base coat



Image of silos completed with polyamide epoxy base coat



Image of silos with fluorourethane finished coating installed





Silo signage and installation



Sign installation in progress



Completed sign installation on silo one





Alpine Painting and Restoration thanks you for taking the time view this presentation.

If you have any questions or issues that you may want to address referencing the aforementioned project please feel free to contact us at 1(800)497-4558 or email us at apandrest@msn.com

