

MARKET SYSTEM PROJECT

OWNER CONTRACTOR

Water & Wastewater: Anaerobic Digester Tanks
 VF-380™ Elastomeric Polyurea over Medium Density Spray Foam
 Anaerobic Digester Tank Lid Protection
 Burlington Wastewater Treatment Plant, Burlington, WA
 Cascade Industries N.W., Bothell, Washington, USA



The the yellow coating around the edge is the VersaFlex FSS 45DC™ polyurea sprayed 18 years ago on the interior walls of the tanks, and is still performing well.

A wastewater treatment plant in Burlington, WA, needed to repair and restore two 45' Diameter Anaerobic Digester tank lids and selected VersaFlex pure polyurea as the solution.

The project was roughly 3200 sq ft in size and consisted of a one (1) inch thick base of spray polyurethane foam insulation topcoated with pure polyurea (VF-380™), one whose physical characteristics are a perfect for spray foam. The polyurea topcoat was applied at an average thickness of 80-90 mils.

N.W., a leading polyurea applicator in the region used a Graco 20-35 Pro with a P2 gun set-up to prep, spray the foam, and apply the VersaFlex VF-380™ pure polyurea.

The wastewater treatment facility's digester lid project took only two (2) days to complete in full. A five (5) man crew from Cascade Industries used a Graco 20-35 Pro with a P2 gun set-up to prep, spray the foam, and apply the VersaFlex VF-380™ pure polyurea.

Interestingly enough, while on the job the team discovered that that digester tank walls were also sprayed with polyurea almost 18 years prior. The polyurea was also from VersaFlex -- FSS 45DC™, their flagship protective coating for concrete. The polyurea was noted to be performing extremely well after 18 years in service.



Digester lid is restored to better than new condition with VersaFlex VF-380™ pure polyurea topcoated over medium density, closed cell spray foam insulation.

The VF-380™ system used as the topcoat on this project is especially well-suited for use in tandem with spray foam. The VF-380™ is a very low-shrinkage polyurea and therefore has no adverse effects over the spray foam when applied properly.



Scope of work to be performed consisted of:

1. Set up a safety plan.
2. Clean roof by pressure washing with hot water and cleaner to remove all residual dirt and chalking.
3. Cut, grind and repair all bird damage and exposed foam.
4. Apply 3 lb foam as needed to repair.
5. Repair all terminations as required for up pipes and man ways.
6. Mask all perimeter hand rails and such from over spray.
7. Clean all surfaces with prep wipe to soften existing materials.
8. Apply 50 mils Versaflex 380 Polyurea by spray to all repaired areas as stripe coat.
9. Apply 70-80 mils Versaflex 380 Polyurea full coat to all surfaces to provide new roof system.



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