

# Application Profile

- Project:** John F. Pearson WT Plant Expansion, Orangeburg, SC  
Potable Water Tank Lining
- Polyurea Applicator:** Osborn Contract Services, Greer, South Carolina  
Inspection / Project Monitoring by Primeaux Associates LLC
- Polyurea System Applied:** Elasto-Prime Series 401 Primer, Elasto-Shield Series 400  
Spray Polyurea Liner System, The TNEMEC Company
- Substrate / Area:** Concrete Floor and Walls, approximately 1000 ft<sup>2</sup> total
- Date:** May, 2005

The Orangeburg WTP was in process of an expansion and a new water holding tank was being refurbished. In order to protect the concrete and avoid leakages, a sprayed applied liner system was specified. Since the tank holds potable water, an ANSI/NSF-61 approved lining system was required. The TNEMEC series of primer system and applied polyurea liner were chosen due to the performance of these products in water tank lining applications.



For surface preparation, a high pressure water cleaning (HP-WC) was used to remove debris and open bug-holes. The concrete wall areas were skim coated with a polymer modified cementitious material, TNEMEC MortarClad™ Series 218, to provide for a uniform surface and fill bugholes. The Elasto-Prime Series 401 epoxy primer system, NSF Certified, was then applied using rollers. The Elasto-Shield Series 400 (white) spray polyurea system, NSF Certified, was then applied at a minimum average 60 mils (1.5 mm) to the tank rehab and a wall section for the main building.



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