

Application Profile

Project: TransMontaigne Terminaling Inc., Rensselaer, NY
Secondary Containment, Polyurea / Geotextile Lining

Project Engineer: SPEC Consulting, LLC, Albany, NY

Polyurea Applicator: F.S.I., Inc., Fort Myers, FL

Inspection / Project Monitoring: Primeaux Associates LLC

Polyurea System Applied: PV-380, PolyVers, International

Substrate / Area: Asphalt, 410,000+ ft² (38,090+ m²)

Date: July—August, 2007



The TransMontaigne Terminaling area is a large tank farm for storage and distribution of various liquid fuels and fuel additives. The area base is composed of asphalt, which was exhibiting extensive cracking and heaving. Since this area is near the Hudson River, concern was that in the event of spill or tank overfills, the various fuels would pass through the asphalt base and thus contaminate the ground water and possible river area. The purpose of the installation of the PV-380 Polyurea Geotextile liner system was to provide an impervious lining membrane in case of spills or tank overfills. The PV-380 Polyurea system was applied at a minimum average 70 mils (1.8 mm).

The PV 380 is an aromatic polyurea spray elastomer systems designed specifically for geotextile lining applications. The system has a very low cure shrinkage value (0.11%), as well as a high tensile strength and elongation values. Since the system is aromatic based, the potential for surface discoloration in outdoor application is possible so the PV-380 was supplied in a Mocha color to minimize the color fade.

The PV-380 polyurea was applied onto Remay TYPAR[®] 3401TG 4-oz 100% spun bonded polypropylene geotextile fabric. This geotextile provides for a uniform, sound substrate for application of the PV-380 material, when used over substrates such as the cracked asphalt and earthen containments.

The PV-380 was applied using a GUSMER[®] 25/25 and a GUSMER H-20/35 hydraulic plural component proportioning units. This unit is capable of the required flow/pressure and heating necessary to achieve proper mix of the PV-380 polyurea system. The spray guns used were GlasCraft[®] Probler[®] P2's, configured with 02 mix chamber and 02 tip.



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