

FR Spray-Applied Containment Provides Greater Safety for Hi-Temp Hydrocarbons

Canadian-Made, Fire Resistant Polyurea Installation Compliant to CAN/ULC S668

December 9, 2022

Fort McMurray, Alberta



Above: WEC crew installs PRECIDIU™ ECS™ 150D-FR Membrane at Tank Farm in Fort McMurray
Photos: Courtesy of Western Engineered Containment

Quantum Chemical and Western Engineered Containment are pleased to announce the installation of 22,000 m² (236,500 ft²) of PRECIDIU™ ECS™ 150D-FR fire resistant polyurea at a Tank Farm in Fort McMurray.

PRECIDIUM™ ECS™ 150D-FR was developed and tested in Quantum's R&D Test Lab to exceed the required property performance of spray-applied liners and geotextile systems for secondary containment and the stringent CAN/ULC S668. For environmental sustainability this product emits zero VOCs – a signature of Quantum's green product development. For environmental aesthetics, the green was selected to blend in. Product development and manufacturing are completed at Quantum's facility in Alberta.

The facility required a fire retardant lining material which met the CAN/ULC S668, Standard for Liners Used for Secondary Containment of Aboveground Flammable and Combustible Liquid Tanks, and complied with the National Fire Code. PRECIDIU™ ECS™ 150D-FR was selected after extensive testing showed it could maintain containment when exposed to diluted bitumen at 185°C. The versatility of a spray-applied system to seal around tanks, pipe racks, and ground penetrations and ease of future repairs during service, were also desired on this major infrastructure project.

Western Engineered Containment constructed and installed this secondary containment system in two phases. The initial 45 mils of PRECIDIU™ ECS™ 150D-FR were robotically sprayed onto geotextile panels at their facility in Leduc, AB. These pre-sprayed panels were transported to site and joined together using the same PRECIDIU™ ECS™ 150D-FR material to form a versatile and continuous containment. Western Engineered Containment's comprehensive QA/QC program was in place at both the factory pre-spray and field installation phases, ensuring complete and reliable containment was achieved throughout.

Quantum Chemical is a specialty coatings formulator and manufacturer involved in the containment, transportation, utility infrastructure and building construction/refurbishment industries with a keen focus on fire retardant and Zero VOC products.

For additional information about **PRECIDIUM ECS™ 150D-FR**, please be sure to visit us at <https://www.quantumchemical.com/precidium-secondary-containment> .

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