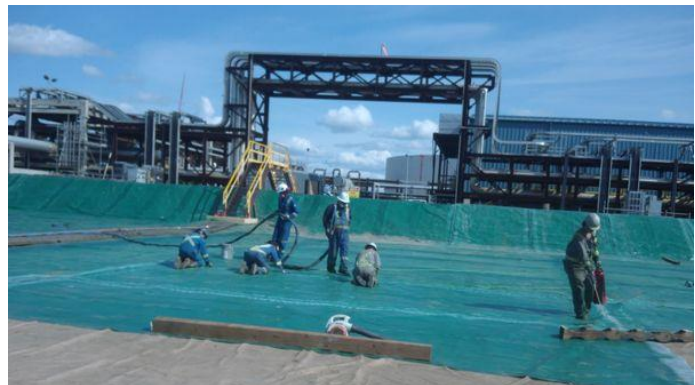


# FR Spray-Applied Containment Provides Greater Safety for Hi-Temp Hydrocarbons

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

December 9, 2022

Fort McMurray, Alberta



**Above:** WEC crew installs PRECIDIU<sup>TM</sup> ECS<sup>TM</sup> 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 m<sup>2</sup> (236,500 ft<sup>2</sup>) of PRECIDIU<sup>TM</sup> ECS<sup>TM</sup> 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. PRECIDIUM™ 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 PRECIDIUM™ 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 PRECIDIUM™ 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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