IMPERMITEK
Advanced Seamless Technologies

# SCHOOL ROOF RESTORATION

Case Study

**Project Type:**
Roof Overlay

**System Installed:**
IR-26 Polymer Resin

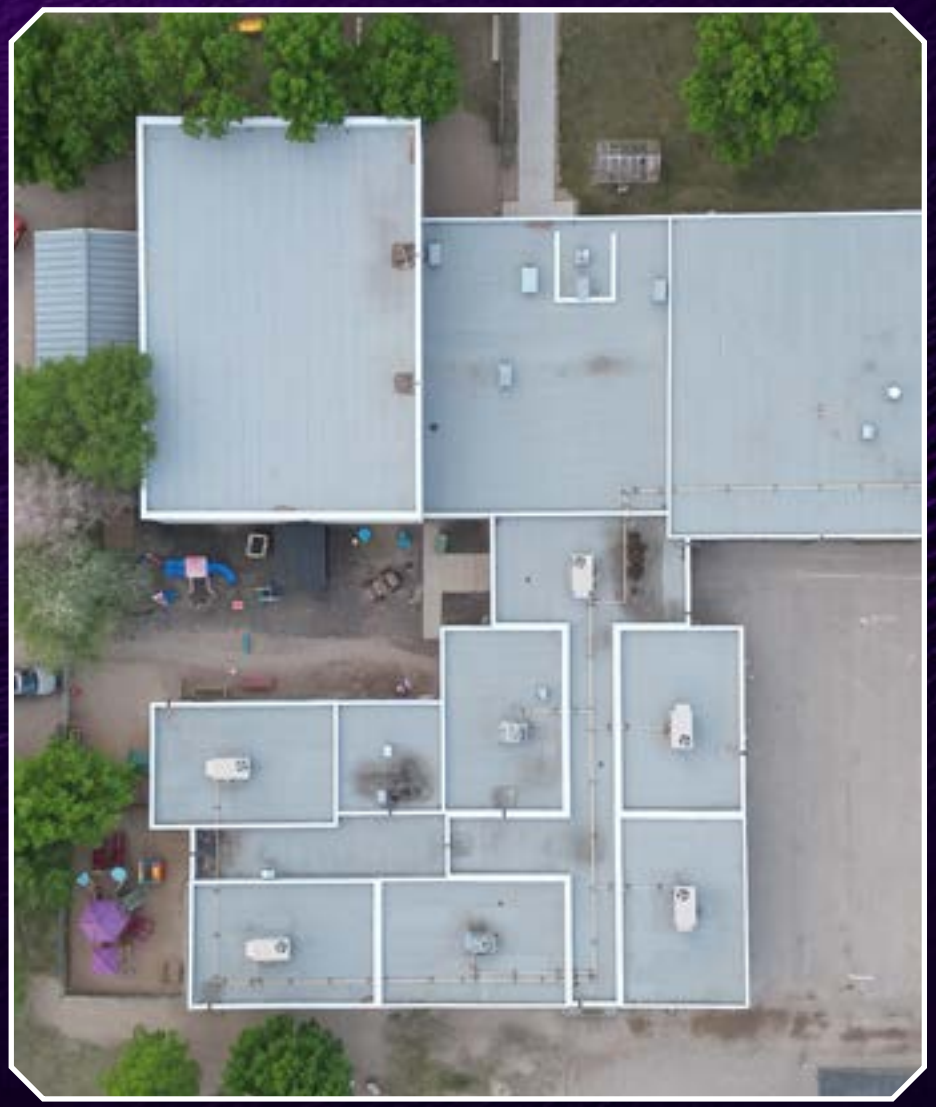
**Project Size:**
2,600 Square Feet

**Sector:**
Educational

**Location:**
**Regina, Saskatchewan**

**Authorized Installer:**
EPI Construction

# PROJECT INTRODUCTION



When persistent leaks threatened a school's operations in Regina, Saskatchewan, Impermitek delivered a fast, cost-effective solution without the disruption of a full roof replacement. Awarded the 2,600-square-foot roof overlay, Authorized Contractor EPI Construction installed Impermitek's IR-26 Polymer Resin System over the existing SBS modified bitumen assembly, restoring waterproofing performance while preserving serviceable roofing materials. The fully bonded, seamless, cold-applied liquid membrane minimized demolition, waste, and construction time while providing a fully warranted system built for long-term protection. Completed within the school's tight summer construction window, the project stopped active leaks, extended the roof's service life, and ensured dependable protection before students returned in the fall.

# PROJECT CHALLENGES

The existing SBS modified bitumen roof presented several challenges that had to be resolved before the overlay could be completed successfully. Ongoing leakage had compromised portions of the roof and required localized investigation and repair before the new waterproofing system could be installed.

Drainage conditions added another layer of complexity. Low areas on the roof were holding water increasing the likelihood of prolonged moisture exposure and making installation more difficult where surfaces remained wet. Proper preparation, localized repairs, and careful sequencing were essential to establish a suitable substrate and create a reliable transition from repaired areas into the new overlay system.

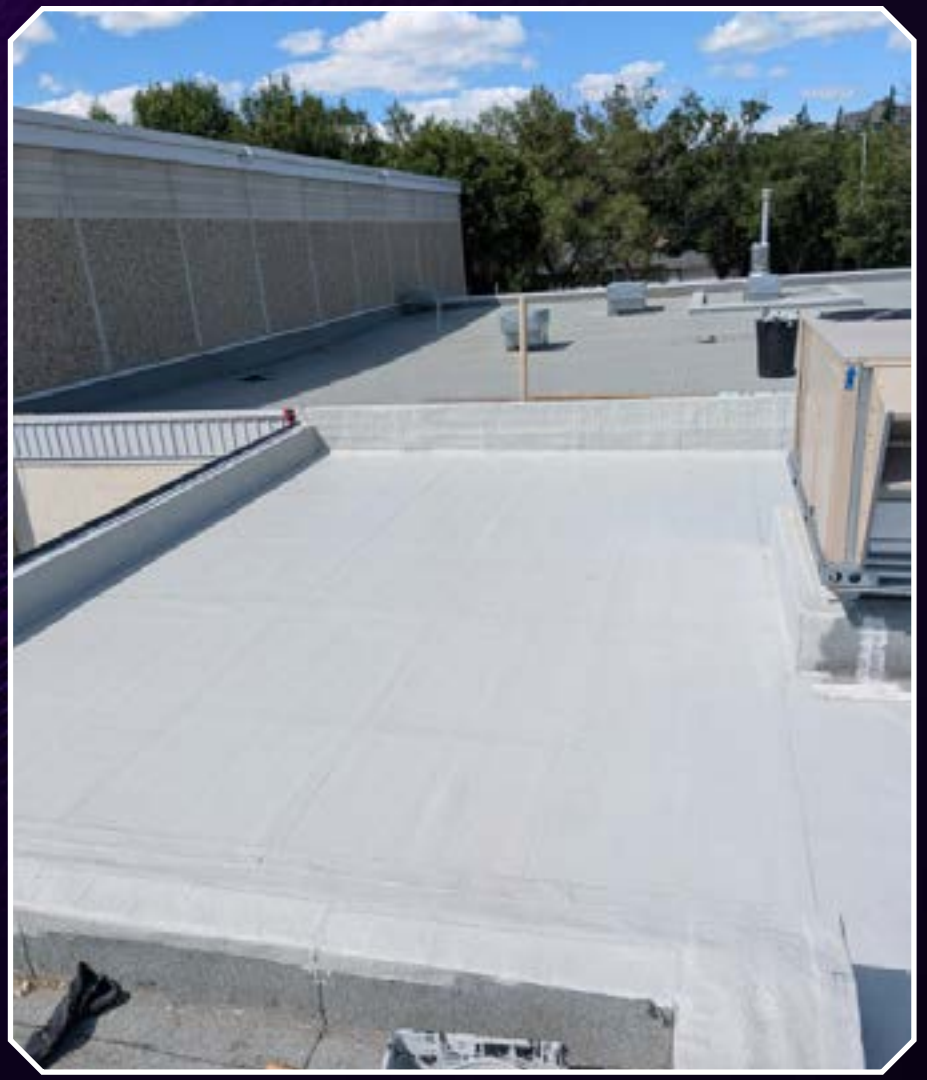
## THE IMPERMITEK SOLUTION

EPI Construction began by isolating and repairing the known problem areas in the existing modified bitumen roof before the overlay installation proceeded. This ensured that the new membrane would be installed over a properly prepared and stabilized substrate rather than simply covering unresolved defects. Temporary rooftop tents were also used to help mitigate the summer heat, improve working conditions, and extend productive installation periods for the crew. Following the required repairs and surface preparation, Impermitek General Primer was applied to the existing SBS modified bitumen substrate. The primer was used to promote adhesion between the existing roof and the new IR-26 system while also helping to prevent bitumen bleed-through from migrating into the finished membrane. This preparation step was important to the long-term performance and appearance of the completed overlay.


The installation then followed a detail-first approach. Penetrations, flashings, perimeter conditions, transitions, and other critical roof details were reinforced and waterproofed before the field membrane was completed. Addressing these vulnerable areas first helped establish continuity throughout the waterproofing assembly and reduced reliance on the laps, seams, and welds associated with many traditional sheet-membrane systems.

Once the detailing was complete, EPI Construction installed the IR-26 Polymer Resin System across the field of the roof using continuous polyester reinforcement. The cold-applied liquid membrane formed in place, creating a fully bonded, seamless waterproofing layer designed to conform closely to roof geometry and accommodate normal structural movement. Because the system is cold-applied, the installation required no open flame or hot works - an important safety advantage on an occupied educational property.

IR-26's fast-curing resin technology was particularly valuable on this time-sensitive project. It allowed the contractor to work efficiently within the available summer window and progress the installation toward completion before students returned.



The overlay approach also avoided the cost, disruption, and waste associated with a full tear-off while extending the useful life of the existing SBS modified bitumen roof assembly.

The completed 2,600-square-foot overlay provided the school with a reinforced, seamless, fully warranted waterproofing solution designed for long-term durability and dependable protection from water and weather. With the recurring problem area repaired and protected by the IR-26 system, the school gained greater confidence in the roof's long-term performance - and, most importantly, a drier, better-protected environment for students and staff.