

SealBoss Case Study

Date of Project: January 2021

Location: St. Michael's Catholic School – Lincoln, Nebraska

Contractor: Epp Foundation Repair

Project Scope:

Client was experiencing water intrusion through beam pockets on an exterior structural concrete wall causing damage to a Concessions room and storage area. Contractor was asked to remediate leak to stop further damage and consult on methods to prevent similar occurrences.

Repair Method:

SealBoss 1510 NSF/ANSI 61 WaterStop Foam was injected into the beam pockets and along cold joint between the concrete wall and the corrugated metal flooring where leaks had been present. Upon initial investigation of the structure, the leak had occurred on the Northwest side of the structure where winter storms created a buildup of snow and with the lack of sunlight that the area received, the snow melt was able to remain stagnant. Additionally, there was damage to the gutters and signs of overflow on the wall right above an exterior joint where it was determined to be the point of intrusion. All visible leaks were addressed using the 1, 2, 3, 45 Degree method via injection packers that were placed roughly 4" from the joint where 1/2" holes were drilled at a 45-degree angle back into the joint. 1510 was injected until positive refusal of the hydro-active resin was visible at both the beam pocket and along the corrugated metal. Client was advised to add downspouts and repair damaged gutters to help direct flow away from the building in areas where water pooled and to push all snow away from the building.

Products Used:

Injection Resin: SealBoss 1510 w/ 15x Accelerator

Injection Packers: 1/2" 13-100 Evolution Aluminum Packers

High Pressure Pump: P2002 Single Component Injection Pump

Cleaning Materials: Xylene, R70 Pump Flush, rags, bucket

Additional Tools: 18" x 1/2" drill bit -- 3/8" Crescent Wrench -- Dead Blow Hammer
Hammer Drill -- Access 110v Power -- Vacuum