

# CASE STUDY



## Fertilizer warehouse with ground contamination concerns

### Elimination of water stops & caulked joints reduced total project costs

**Construction Type:**  
New Construction

**Type of Facility:**  
Materials Processing Warehouse for Fertilizers

**Original Slab Design:**  
6" S.O.C. with 4.5# of steel fibers

**PrīmXcomposite Slab:**  
42,700 SF of 4" PrīmX; 68# steel fibers/yd<sup>3</sup>

**PrīmXcomposite Slab Engineer:**  
Beton Consulting Engineers

**Project Architect:**  
Mohagen Hansen Architectural Group

**Project Engineer:**  
Ericksen Roed & Associates

**Project General Contractor:**  
Kraus Anderson Minneapolis

The Microsource Materials Processing Warehouse stores and handles various types of fertilizers and raw materials for production of fertilizers, including ammonia.

### THE CHALLENGE

Microsource engineers were looking for a solution that would produce a long lasting, smooth, easy to use warehouse floor that would also stop ground contamination in case liquid chemicals were spilled on the floor.

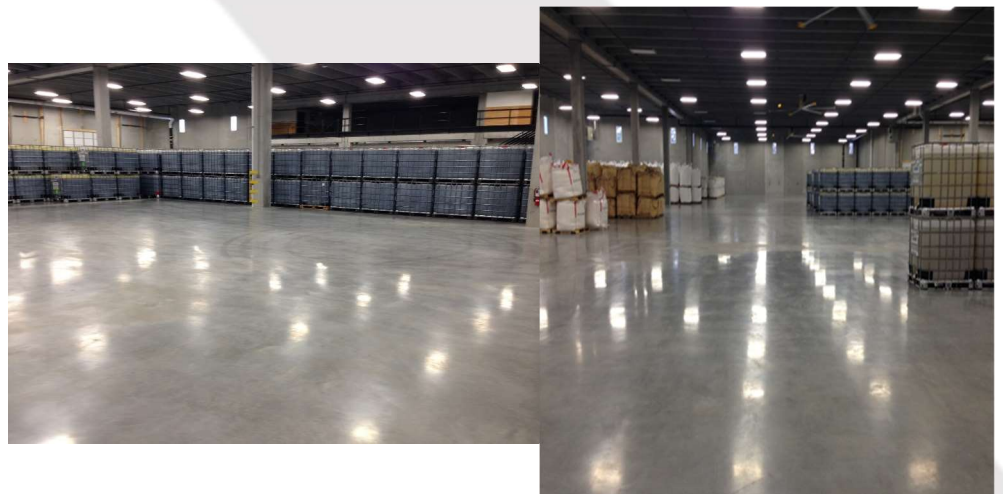
### THE SOLUTION

The PrīmX saw-cut free solution solved many problems facing the performance of the slab and it saved on the total project cost.

First, PrīmX solved a very important environmental challenge. The original slab design not only called for caulking of all saw cuts, but water stops were to be placed under each cut. This was required to protect against any possible ground contamination.

This requirement was very costly, cumbersome and inherently risky. By eliminating saw cuts Microsource was able to eliminate all water stops and caulking, solving the ground contamination challenge and saving the project money.

The facility also has continuous forklift traffic, transporting heavy loads. Forklifts are able to move swiftly over the PrīmX surface, without any jarring that takes place with typical saw-cut floors. Floors are smoother, stay cleaner, and provide a higher efficiency environment for daily operation.



**PRIMX**

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