

BASD Stadium Grandstands

Bethlehem, PA

ENGINEER – D'Huy Engineering, Inc., Bethlehem, PA

CONTRACTOR – Culbertson Restoration, Ltd., West Chester, PA

DISTRIBUTOR – TB Philly, Phoenixville, PA

**Concrete Repair &
Protective Coatings
Summer 2012**

PROJECT TASK

Repair freeze/thaw damage to the concrete elements of steel grandstands.

PROJECT SOLUTION

Repair materials that resist weather related damage followed by waterproof coatings.

PRODUCTS

Conpro Primer
Conpro One Shot 2C
Conpro Set
Conpro Lastic
Elastideck
Super Color Stain



Top three photographs were taken "before and during" and the bottom three were taken "after" the work was completed.



PROJECT HISTORY

The steel grandstand structures at the Bethlehem Area School District Stadium were built in 1939 with help from the Works Progress Administration. Seating over 13,000 fans, and serving 3 high schools, the grandstands sustain heavy pedestrian traffic.

Each steel grandstand is anchored in place by 2 long concrete structures which include the steps and lowermost walkways. The steel grandstands expand and contract a great deal, even in the course of a single day. Years of freeze/thaw cycling had taken a toll on the concrete elements, which serve as concrete "curbs" and keep the structures from moving forward. Concrete repairs were completed using Conpro Primer as a bonding primer for repair materials to hardened concrete,

Conpro One Shot 2C, a resurfacing material, and Conpro Set repair mortar. A breathable waterproof pedestrian deck coating system, consisting of Elastideck and Super Color Stain, was then applied. Conpro Lastic elastomeric paint was applied as a protective waterproof coating to the vertical surfaces.

Other concrete elements at the site, including a retaining wall, were also repaired and recoated with the same system.