

## SIKA AT WORK CONEWAGO STEEL SYSTEMS

NEW BUILDING CONSTRUCTION - SLAB ON GROUND



**BUILDING TRUST** 

## CONEWAGO STEEL FABRICATION BUILDING HANOVER, PA

OWNER: Conewago Manufacturing, LLC GENERAL CONTRACTOR: Conewago Enterprises, Inc. READY-MIX SUPPLIER: Conewago Ready Mix Concrete CONTRACTOR: Keith D. Smith Concrete Contractor, Inc. SPECIALTY PRODUCTS: SikaControl®-NS YEAR: 2020

## **PROJECT DETAILS:**

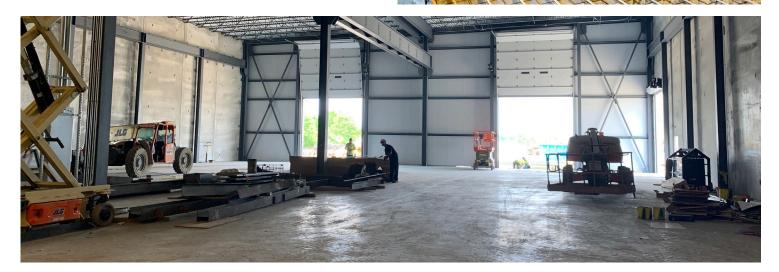
Conewago Enterprises, a leading design-build general contractor serving the mid-Atlantic region, recently constructed a 125' x 100' addition to Conewago Manufacturing's steel fabrication building. When planning the building expansion they requested a mix design that would have a low shrinkage value resulting in the ability to have a minimum amount of joints. The down time and maintenance issues associated with joints in a manufacturing facility were the main driver of the decision.

Conewago Ready Mix used a mix design that incorporated CarbonCure<sup>™</sup> Technologies, which introduces recycled CO<sub>2</sub> into fresh concrete to reduce its carbon footprint. The mix design was further improved by incorporating 3% SikaControl<sup>®</sup>-NS technology and 3 lbs of micro fiber per cubic yard. SikaControl<sup>®</sup>-NS blends expansive components with pore water surface tension reduction to defend against both autogenous and drying shrinkage cracks. Micro fibers provide additional resistance to early age cracking in concrete. SikaControl<sup>®</sup>-NS supplemented with micro fiber reinforcement provides a complimentary approach to crack-free slabs on ground.

The slab was poured in two placements. The first placement was  $62.5' \times 100'$  with a control joint cut mid span at 50'. The second placement was  $63.5' \times 100'$ . The slabs were 8" thick reinforced concrete poured over a double slip sheet on a well-graded compacted subgrade. The slabs incorporated diamond dowels for load transfer at the construction joint. The result is a crack-free manufacturing facility that Conewago Steel Systems uses on a daily basis.







Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.

## SIKA CORPORATION

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