



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™ Technologies, which introduces recycled CO₂ into fresh concrete to reduce its carbon footprint. The mix design was further improved by incorporating 3% SikaControl®-NS technology and 3 lbs of micro fiber per cubic yard. SikaControl®-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®-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' x 100' with a control joint cut mid span at 50'. The second placement was 63.5' x 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.

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