



PROJECT NAME: SCIO FORK LIFT RAMPS



Photo: Finished ramps using ceEntek's ce200SF-t™, thixotropic Next Generation UHPC 2.0™

Location: Scio, Ohio

Owner: Scio Packaging Company

Product: ceEntek ce200SF-t™

Product Volume: 3 m³ (4 cy)

Job Area: 8'x24'x3" (2.4 m x 7.3 m x 75 mm)

Completion Date: August 2020

PROJECT SITE



Aerial Photo: Showing location of fork-lift ramps, Scio Packaging Co

Scio Packaging Company in the town of Scio, OH, is located one hour west of Pittsburgh, PA used ceEntek's thixotropic UHPC system ce200SF-t™ to rehabilitate the fork-lift ramp area in order to provide a smooth access to the loading area in the plant. The fork-lift ramp area had undergone severe damage due to frequent traffic of heavy trucks and required rehabilitation since it is an important access for the plant operation.

PROJECT PROFILE

PROJECT DESCRIPTION

The fork-lift ramp is an important access from the truck dock road to the materials storage dock. The ramp slopes up from the road at a grade of 7% longitudinally with a 3% cross slope, resulting in a combined maximum slope of over 8%. The ramp area is an integral part of the plant operation and required a quick turn around.



Photo: ceEntek's Model 30 UHPC mixer & vibrating screed set up



Photo: loading a bulk-bag of ce200SF-t™ into ceEntek's UHPC Mixer

PROJECT EXECUTION

ceEntek's thixotropic ce200SF-t™ was supplied in 2370 lb (1075 kg) bulk-bags and batched in ceEntek's Model 30 mixer. One bulk-bag per batch provided 0.65 cy (0.5 m³) of UHPC. The material was transported in a 0.33 cy (0.25 m³) capacity power buggy to the formworks and placed in front of a vibrating screed. The material was consolidated and graded with the screed. Once the vibrating screed had passed over the material it held its profile on the sloping grade. Immediately following the passing of the screed over the surface of the material, curing was started by the application of two coats of spray-on white pigmented curing compound.



Photos: Formworks for the fork-lift ramps (upper left); completed fork-lift ramp using ce200SF-t™ (upper right)