

Chapman's Ice Cream Cold Storage Facility

Markdale, ON, Canada (2017)

PRODUCT USED:
Hard-Cem®

OWNER:

Chapman's Ice Cream

ENGINEER:

GM BluePlan Engineering Ltd.

GENERAL CONTRACTOR:

Cornerstone Design/Build Services, Inc.

CONCRETE SUPPLIER:

The Miller Group

APPLICATOR:

Grey County Concrete

DISTRIBUTOR:

Form & Build Supply

BACKGROUND

Chapman's Ice Cream was founded in 1973 and has grown into a multimillion-dollar business that employs hundreds of people. However, in 2009, they experienced a setback. A fire had gutted Chapman's creamery, and because of that, the company had to rebuild the entire facility.

Luckily, within a year, they were up and running and were able to start manufacturing again. By 2017, the company had decided to build a new cold storage facility to meet growing demand. This new facility would be an active center, with workers constantly coming and going. It would also be subjected to constant abrasion from forklifts and the movement of pallets. As a result, the construction team for this new center was looking for a concrete hardening solution that would help the facility sustainably resist the abrasive effects of such heavy traffic.

SOLUTION

The construction team was concerned that a surface broadcast hardener would not be able to provide the concrete with the abrasion protection it needed. After considering the performance of different products, the team specified Hard-Cem for their 3,252-square meter (35,000-square foot) and 203-millimeter-thick (eight-inch-thick) floor slab. They chose Hard-Cem not only for its ability to provide concrete with exceptional abrasion resistance (when compared with traditional hardeners) but also for its ability to double the concrete's wear life. They were also very impressed with Kryton's guarantee on product quality. Moreover, Hard-Cem's compatibility with common admixtures and air-entrained concrete demonstrated the versatility required for incorporation in high-traffic warehouses and storage facilities like Chapman's. In short, Hard-Cem delivers value, has high quality control, and is sustainable while improving the service life of concrete.

