

Metro Skate Park

Air Entrained Concrete

Metro Skate Park is an expansive skate board park constructed in 2004 for the city of Burnaby, British Columbia. This project called for concrete that allowed designers to deliver complex shapes, clean lines and a long lasting quality surface. The project designers space2place and Fulton Engineering recommended HARD-CEM integral concrete hardener.

HARD-CEM which functions as a hard functional filler was added at the Ocean Construction Supplies batch plant ensuring uniform quality control. The complex concrete pour and placement happened over five months. HARD-CEM was added to the concrete mix at a rate of 40kg/m³ for the flatwork and shotcrete. The placers were impressed with the creamy texture and the ease of achieving a high quality smooth finish. Consultants and construction crew involved in this project felt that HARD-CEM contributed to a higher quality and more durable concrete. The expectation is that HARD-CEM will become a standard specification for future skate parks. HARD-CEM integral concrete hardener with EcoSmart™ high volume fly ash concrete was used for this demanding project. A detailed case study on the Metro Skate Park design and use of concrete is available.

Integral Concrete Hardener

HARD-CEM is engineered to provide concrete with superior hardness and improved durability for demanding construction projects. HARD-CEM is unique in its ability to enhance the integrity of air-entrained and non air-entrained concretes. HARD-CEM provides significant advantages for projects needing enhanced durability including: paving, bridges, parkades, industrial floors, precast pipe, dams, spillways, stilling basins, and erosion control structures.

Cementec Industries

HARD-CEM was engineered by Cementec for concrete subjected to mechanical (direct or water-borne) action causing erosion. Cementec is an award winning engineering, production and distribution company with special expertise in the research and development of proprietary products for the oil & gas and construction industries. Cementec is a member of ACI, the Transportation Research Board, and APEGGA.

Cementec is a strategic partner with Teck Cominco Limited an integrated natural resource and materials company with expertise in exploration, mining, development, smelting, refining and materials processing. Teck Cominco Limited (www.teckcominco.com) provides quality materials and technical solutions to the global marketplace.

Contact Us

Toll-free 24 hour order desk: 1.866.212.5042
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For more information contact Cementec 1.403.720.6699
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See related documents on HARD-CEM product usage, performance testing, and project summaries.

HARD-CEM is a registered trademark of Cementec Industries Inc.



PROJECT PROFILE

Owner: City of Burnaby, British Columbia

Project Manager: space2place design

Materials Engineer: AMEC

General Contractor: CAP Ventures

Structural Engineer: Fulton Engineering

Project Specialists: Specturm Skate Park Specialists

Concrete Supplier: Ocean Construction Supplies

Total Area: 28,000 ft² (2,600 m²)

