

## Seattle Iron & Metals

### Air Entrained Concrete

The Seattle Iron & Metals scrap metal facility yard is subject to extreme abrasion from bucket loaders feeding an automobile shredder. In 1999, the existing site was paved with 3 inches of asphalt capped with 12 inches of standard concrete pavement. Railroad tracks were set into the concrete so that loader buckets would rest on the track instead of wearing on the concrete. After five years, the 12 inches of concrete had worn through exposing the asphalt. BNBuilders and Cadman devised a plan to replace 21,000 square feet with a slab that would provide greater abrasion resistance.

## Why HARD-CEM

The new slab was made with high-strength and low-shrinkage self consolidating concrete. HARD-CEM was also added at the Cadman batch plant. The full depth concrete hardening abilities of HARD-CEM makes it the logical solution for concrete in high traffic and high wear (high abrasion) environments.

## Project Experience

Everyone involved in the project was very impressed with the good finishability and placeability. HARD-CEM worked well in the SCC/fiber mix. This project received the 2006 Excellence in Concrete Award for concrete paving from the Washington Aggregate & Concrete Association.

## 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 in partnership with Teck Cominco for concrete subjected to mechanical (direct or water-borne) action causing erosion. Cementec is an award winning engineering company with special expertise in the research and development of proprietary products for the oil & gas and construction industries.

## Contact Us

Toll-free 24 hour order desk: 1.866.256.1367  
www.hardcem.com

For more information contact Cementec 1.403.720.6699  
or info@cementec.ca

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: Seattle Iron & Metals Corp.*

*Project Manager: BNBuilders*

*Concrete Supplier: Cadman*

*Total Area: 21,000 ft<sup>2</sup> (1,948 m<sup>2</sup>)*

