## Gibraltar Mine Williams Lake, BC, Canada (2012)

PRODUCT USED:

OWNER: Taseko Mines Ltd. ENGINEER: Allnorth Consultants Ltd. READY-MIX SUPPLIER: CIF Construction Ltd. **DISTRIBUTOR:** Brock White Canada Co.

## BACKGROUND

Taseko Mines Ltd.'s Gibraltar copper-molybdenum mine is located in south-central British Columbia, approximately 60 km (37 mi) north of the City of Williams Lake. Built in 1972, the Gibraltar Mine is the second largest open-pit copper-molybdenum mine in Canada.

As part of the mine's multi-phase expansion and modernization program, Allnorth Consultants Ltd. provided engineering for the construction of a new four-bay truck shop and maintenance facility. This new area would house Komatsu 930E haul trucks, which weigh 207 tons empty and around 495 tons loaded and have a body capacity of 211 m<sup>3</sup> (276 y<sup>3</sup>).

Without proper wear resistance, the concrete floor supporting such vehicles could easily have suffered wear and tear from abrasion.

## SOLUTION

To prevent this abrasion, the owner chose to add Kryton's Hard-Cem to the concrete as they knew it was a proven technology that would increase concrete wear resistance. Adding to the appeal of their choice, Hard-Cem is also fully compatible with conventional admixtures and is the only hardening admixture of its kind currently on the market.

Once added to the concrete mix, Hard-Cem's full-depth concrete hardening extended the service life of the flooring in the shop and facility, particularly in high-traffic areas that were subjected to long-term abrasion from equipment service and long-term erosion from wash areas. In turn, this prevented costly repairs and replacement and corresponding facility downtime. In short, Hard-Cem proved to be a cost-effective solution for the owner, offering long-term savings with lower maintenance costs while improving the wear resistance of the shop and facility's floor for employee safety.





