



Reducing Concrete's Carbon Footprint with Hard-Cem®

Vancouver Convention Center – Achieved LEED Platinum Certification for Operations and Maintenance. Hard-Cem was used to increase abrasion resistance in 20,717 m² of high traffic facility flooring.

Did you know?

- Concrete is the world's most used building material. It's abundant, affordable, locally available and a vital element in the development of sustainable and resilient communities
- The largest contribution to concrete CO₂ emissions is in the manufacture of cement, a binder used to increase the durability in concrete
- Every pound of cement produces 0.9lbs of CO₂

With Hard-Cem you:

Reduce the amount of cement needed initially

To increase concrete durability designers often use more cement. With Hard-Cem you can achieve the required concrete abrasion and erosion durability without increasing the amount of cement in the mix.

Reduce the amount of cement required over time

Hard-Cem increases concrete's resistance to abrasion and erosion doubling its wear life, reducing concrete replacement and repair. With less concrete required over time you significantly reduce the lifetime CO₂ emissions of the concrete structure.

Other positive attributes:

- Hard-Cem is produced from post-industrial material contributing to the circular economy
- Hard-Cem is packaged in pulpable bags that can be added directly to the concrete mix reducing waste
- Hard-Cem treated concrete remains recyclable
- Hard-Cem eliminates the need for surface-applied dry shake hardeners which are a source of toxic silica dust
- Hard-Cem can contribute to LEED Certification