

# Higher Durability, Lower Carbon Footprint. No Compromise.



A concrete admixture for abrasion and erosion resistance that improves the **durability, sustainability, and profitability** of your concrete mixes.

## Hard-Cem® for Ready-Mix Producers

Hard-Cem significantly reduces replacement and repair requirements and more than doubles the concrete's wear life, effectively lowering the structure's embodied carbon footprint over its lifetime.

By including Hard-Cem in your concrete mix designs, you can deliver long-lasting, abrasion and erosion-resistant concrete to your clients — while also meeting your sustainability commitments and boosting your bottom line.



### Greater Profitability

Win new business in the growing green building market while also boosting your bottom line with a value-added, durable solution your clients will love.



### Lower Risk

Hard-Cem has no negative effects on concrete water demand, workability, set time, strength development, or shrinkage and our warranty ensures your concrete remains abrasion resistant for at least 20 years.



### Greener Concrete

Significantly lower the carbon emissions of your high-performance concrete by using less cement to achieve the same durability as high-strength concrete. Since it improves the longevity of concrete, it also reduces the need for carbon-intensive repairs and maintenance.

## A Trusted Concrete Solution Since 2003

- 20 years of proven performance
- Added to >100 million ft<sup>2</sup> of concrete
- Up to 25% fewer CO<sub>2</sub> emissions than typical high-strength concrete mixes
- Published in *ACI E701-E3 Chemical Admixtures*
- Published in the revision of *ACI 212 3.R*
- 20-year durability warranty

Limited 20-Year Product Warranty — Kryton warrants to the owner that the concrete will remain hardened and abrasion resistant for 20 years. This warranty is conditional on demonstrated proof that Hard-Cem has been added to the concrete mix at no less than the manufacturer's recommended dosage rate and that all other manufacturer's instructions have been followed. Warranty is void if structural faults occur due to faulty workmanship, faulty design, failure of products or ingredients other than Hard-Cem or abnormal use, abuse or alteration of the floor. Concrete mix design must be suitable for the exposure class present. Concrete must be properly proportioned, mixed, placed, finished and cured. All invoices owed to Kryton related to this project must be paid in full.

# For Every Project that Values Durability + Sustainability

Hard-Cem® is a tested and proven solution effective with cast-in-place, precast, and shotcrete in horizontal, vertical, or inclined placements.



## How It Works



Hard-Cem uses a unique metal-mineral microstructure that is mixed into concrete at the batching plant, simplifying the application process and reducing costs associated with additional floor treatments or special finishing on the construction site.



It fortifies existing cement paste in the mix to increase the concrete's resistance to abrasive and erosive forces and eliminates the risks associated with other hardeners or densifiers (e.g., delamination, curling, cracking).



It significantly reduces replacement and repair requirements and more than doubles the concrete's wear life, effectively lowering the structure's embodied carbon footprint over its lifetime.

*"For any project that requires long-lasting, abrasion or erosion-resistant concrete, Hard-Cem is a must-have. It surpasses traditional hardeners and densifiers in terms of safety, versatility, and environmental impact"*

*Customer Quote*

*"In a competitive industry where every ready mix ingredient affects our margin, Hard-Cem stands out by not only exceeding our concrete's durability and sustainability requirements but also by boosting our profitability. It's a win for us, a win for our clients, and a win for the planet."*

*Customer Quote*

## Deliver More Durable, Sustainable Concrete Today

Scan QR Code to find a distributor near you or learn more.



SMART CONCRETE®