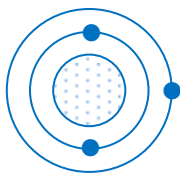


Harden X SI™

Lithium Hardener / Sealer / Densifier / Salt Inhibitor

BRIDGE DECKS, PARKING STRUCTURES, & HIGHWAYS

Using the most advanced technology in the industry, the lithium formulation of **Harden X SI™** provides superior concrete strength and protection against salt intrusion, freeze/thaw cycles, abrasive materials, and the general wear and tear sustained by these surfaces over time. **Harden X SI™** is not a coating, it completely penetrates the surface to become part of the structure in just one application—with no cracking, peeling or flaking for the life of the surface.



THE LITHIUM DIFFERENCE™

Advantages of Lithium Technology

Chemical reactions of lithium silicates are more stable than those caused by the volatile conventional silicates, allowing the material to penetrate more deeply and react more evenly throughout the concrete. **Harden X SI™** reacts with the lime in the concrete to form stable, insoluble tri-calcium silica structures for maximum hardening, sealing, and densification. The cutting-edge technology in our proprietary lithium formulation makes **Harden X SI™** the most advanced product of its kind.

Superior Salt Protection

Industry tests conducted to establish national performance standards for concrete sealers used in the protection of bridge structures set the minimum standard for chloride ingress resistance at 75% as reported in NCHRP No. 244. The chloride screens formed by the lithium technology in **Harden X SI™** dramatically exceed this standard, reducing chloride absorption by 91%.

Stable in All Environmental Conditions

The insolubility of the lithium in **Harden X SI™** provides superior water resistance over sodium silicates which absorb moisture and cause the ASR that produces cracking and crazing after repeated expansion / contraction cycles.

Maximum Resistance

Harden X SI™ reduces surface porosity for maximum resistance to dusting, moisture, and chemical attack. Mohs hardness testing shows a 38% increase in abrasion resistance.

Easy, Fast-Drying, One-Time Application

Harden X SI™ is simply sprayed evenly over the surface with no flushing or removal/disposal of any excess material.

Harden X SI™ dries in 10 minutes and is open to traffic in 30. One application protects for the life of the concrete.

ENVIRONMENTAL ADVANTAGES

- LEED certified (EQ Credit 4.1 Low Emitting Materials)
- No VOCs
- Water-based
- Odorless
- Eliminates dusting of concrete surfaces, improving air quality and cleanliness of the environment
- Leaves no residue in groundwater or wastewater
- Concentrated material - lower application rate, fewer containers, less fuel used in shipping due to lower product weight, reduced shipping costs

