

Attractive  
Durable  
Easy to maintain

# CONSOLIDECK®

**HIGH PERFORMANCE CONCRETE**

*...the ultimate, sustainable  
flooring solution*



The variety of remedial materials available to coat, repair and re-surface underperforming concrete is proof conventional concrete floors have shortcomings. Even with frequent maintenance many remedial materials have a much shorter service life than the underlying concrete.

### Consolideck® High Performance Concrete

products reduce maintenance while improving the appearance and long-term

performance of new and existing concrete floors. Consolideck® lithium-silicates and protective treatments penetrate and react with concrete to improve the performance and resist staining of high-traffic floors.

GemTone Stains and ColorHard colors transform dull grey concrete into highly decorative, low-maintenance finished concrete flooring.

Popular for its strength, durability and low cost, the quality of Portland cement concrete is largely determined by *cement hydration* – the chemical reaction that occurs when Portland cement is blended with water. This reaction produces a dense cement paste of crystalline Calcium Silicate Hydrate (CSH) that binds large and small aggregates together. A by-product of cement hydration is calcium hydroxide.

CSH makes cured concrete strong and durable. Calcium hydroxide is soft and water soluble.

Rapid erosion of calcium hydroxide causes surface dusting and leaves microscopic pits and voids in cured concrete. In addition to collecting dirt and debris, the edges of these pits wear rapidly and contribute to progressive decay of concrete floors.

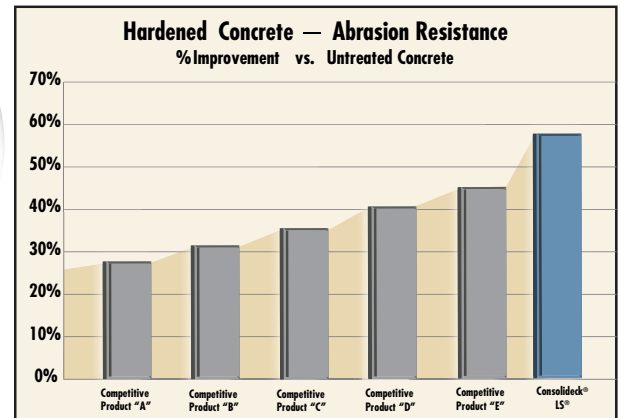
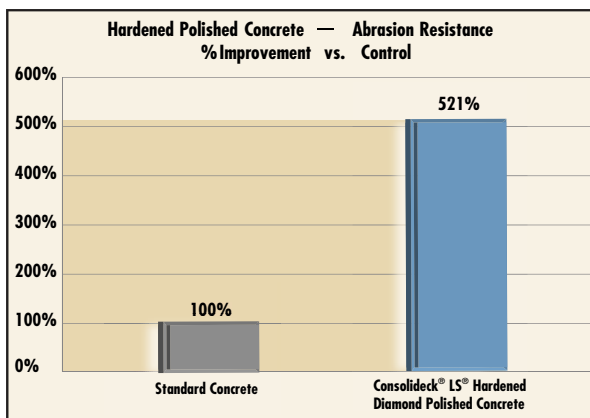
## Improve finished concrete flooring at: Use Consolideck® on:

- Schools & Universities
- Hospitals & Nursing Homes
- Automobile Dealerships
- Grocery Stores
- Restaurants
- Shopping Centers
- Manufacturing Plants
- Warehouses
- Stadium and Terminal Concourses
- Residences

- New Concrete
- Existing Concrete
- Concrete Subfloor
- Dry-Shake Concrete
- Polished Concrete
- Colored Concrete
- Acid-Stained Concrete
- Cement Terrazzo
- Portland Cement Tile
- Portland Cement Toppings

*Silicates make concrete harder* by reacting with calcium hydroxide to produce additional CSH. This reaction replaces soft calcium hydroxide with dense cement paste to make the concrete harder. Treated surfaces are significantly more durable and abrasion-resistant than untreated concrete. In addition to hardening treated concrete, *lithium-silicates* leave insoluble lithium in the concrete surface.

Unlike residues of sodium or potassium left by conventional hardeners, lithium is non-expansive and will not absorb water or contribute to floor sweating. In fact, lithium is relied upon by concrete producers forced to use reactive aggregates to suppress Alkali Silicate Reaction (ASR) – a major cause of rapid concrete decay.



## Prepare

Effective surface preparation helps Consolideck® hardeners and protective treatments penetrate deeply and provide optimal performance.

Drawing on PROSOCO's long history of developing specialty cleaners and stain removers, Consolideck® Surface Prep cleaners improve the appearance and performance of your concrete floor.

- **SafEtch®**  
- Clean and prepare textured concrete for conventional surface coatings.
- **SafStrip 8**  
- neutral pH paint stripper for concrete floors.
- **SafStrip**  
- Safely remove paint, traffic markings and high strength coatings.
- **Wax & Cure Remover**  
- Remove accumulated waxes and cures.
- **Cure & Seal Remover**  
- Rid concrete flatwork of tough high-solids cure and seals.
- **Cleaner/Degreaser**  
- Remove surface oil, grease and traffic staining.
- **Oil & Grease Stain Remover**  
- Remove deep set oil and grease stains.
- **Concrete Floor Restorer**  
- Clean and restore high traffic concrete floors.
- **PreKlean**  
- laitance- and salts-remover for new concrete floors.
- **Driveway Cleaner**  
- Cleans concrete in preparation for treatment with Saltguard WB.



## Decorate

When it comes to decorating concrete floors, use Consolideck® GemTone Stains alone or layered over integrally colored, acid-stained or color-hardened concrete for an unlimited range of rich color hues. On broom-finished outdoor concrete, or on floors not meant for polishing, color and harden/densify in one easy step with Consolideck® ColorHard. Both easy-to-use, water-based products let you create an infinite range of color and design.

- **GemTone Stain**  
- Colorful water-reduced dyes for concrete.
- **ColorHard**  
- One-step hardener and colorant for concrete floors.



## Harden

Consolideck® LS® and Consolideck® LS/CS® have a lower viscosity, and contain more highly reactive silicates than conventional sodium or potassium silicate hardeners.

Lower viscosity helps LS® and LS/CS® penetrate deeper into the concrete surface. Higher reactivity ensures better hardening without the aggressive scrubbing and rinsing needed with conventional floor hardeners.

- **LS®**  
- Premium lithium-silicate sealer, hardener/densifier.
- **LS/CS®**  
- Economical lithium-silicate sealer, hardener/densifier.

# Protect

Consolideck® includes the best performing, longest-lasting protective treatments for concrete flooring.

- **LSGuard®** - This high gloss sealer and hardener/densifier further improves the surface sheen, hardness and stain-resistance of floors treated with Consolideck® LS® or Consolideck® LS/CS®. Producing a long lasting, high-gloss finish that maximizes light reflectance, LSGuard® eliminates the need for floor waxes, liquid polishes and conventional resin coatings.
- **SLX100® Water & Oil Repellent** - SLX100 penetrates deeply into hardened or conventional concrete to protect it from water damage, salt damage and oily staining.
- **PolishGuard** - Glossy sealer protects polished floors subject to spills of acidic liquids like vinegar, fruit juice and soft drinks.
- **GuardEXT** - Shields decorative outdoor concrete from hard-to-remove stains, including oil, grease, food, drink - even de-icing salts!

**Additional Consolideck® protective treatments suitable for use on conventional concrete include:**

- **SLX100® Water & Oil Repellent <350** - Low VOC edition of the popular deep penetrating water & salt barrier.
- **Saltguard®** - deep penetrating water & salt barrier.
- **SaltGuard® WB** - deep penetrating water & salt barrier - water based.
- **SingleStep®** - slip resistant cure & seal for concrete.
- **DuraSheen** - slip resistant, high gloss, cure & seal for concrete.
- **Color Enhancer WB** - water-based color enhancing protective treatment.



NSF REGISTERED  
Consolideck® LS®  
Consolideck® LS/CS®  
Consolideck® LSGuard®

Create high performance concrete floors that protect indoor air quality with these SCS Indoor Advantage™ Gold certified products:

Consolideck® LS®  
Consolideck® LS/CS®  
Consolideck® LSGuard®  
Consolideck® GemTone Stain  
Consolideck® ColorHard



Specify these products to help gain LEED® NC and LEED® for schools points (EQ Credit 4.2, EQ Credit 4).

# Maintain

Concrete floors are low-maintenance, but like anything that gets traffic, they are not “no-maintenance.” Keep concrete floors looking and performing their best with Consolideck® maintenance cleaners. Using no harsh acids, caustics, solvents or abrasives that can etch floors or dull shines, they’re great for any concrete floor – steel troweled to highly polished.

- **LSKlean Super Concentrate** - Lithium-silicate maintenance cleaner keeps floors clean and maintains durability by hardening “soft” calcium hydroxide exposed by traffic or abuse. Great for auto-scrubbers. Four ounces of concentrate makes 5 gallons of ready-to-use cleaner.
- **DailyKlean** - This economical, concentrated maintenance cleaner removes common soiling from finished concrete floors while keeping finishes looking their glossy best. Perfect for high-traffic floors that need cleaning often.



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**Removing damaged floor coverings?** The underlying concrete may be in good condition. For a long-lasting, low-maintenance decorative floor:

1. Remove adhesive residues and stains with Consolideck® Surface Prep Cleaners.
2. Harden and dustproof with Consolideck® lithium-silicates.
3. Decorate with Consolideck® colors.
4. Add high gloss protection with Consolideck® LSGuard®.



**Installing new concrete?** Apply Consolideck® lithium-silicates before or after curing to achieve maximum abrasion resistance and surface luster.



**Need more life out of worn, dusty concrete?** Consolideck® lithium-silicates harden and dustproof worn concrete better than conventional liquid hardeners.



**Diamond Polishing?** Ground concrete treated with Consolideck® lithium-silicates responds more quickly to diamond polishing. Get better results with less effort.



**Need better light reflectance?** After curing, improve the surface sheen of floors treated with Consolideck® lithium-silicates with high-speed burnishing equipment. For maximum light reflectance, apply up to 3 coats of LSGuard®.



### **Consolideck® Quick Response Spill Clean –Up Kit**

*For concrete floors*

It doesn't take long for spills to etch and permanently stain polished concrete floors. When seconds count, the Quick Response Spill Clean-Up Kit can make the difference between a damaged floor and one that looks like the spill never happened.

- Effective for water- and oil-based spills
- Contains all needed safety gear and clean-up equipment
- Efficiently contains and removes large spills
- Works fast



### **Consolideck® Floor Repair Kit**

*For Colored Concrete Floors*

Restore the beauty of finished concrete floors damaged by acidic, alkaline and other spills that stain and etch.

- Easy to use
- Designed for store maintenance staffs
- Effective on stained, color-hardened and integrally colored concrete
- Contains no hazardous materials

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