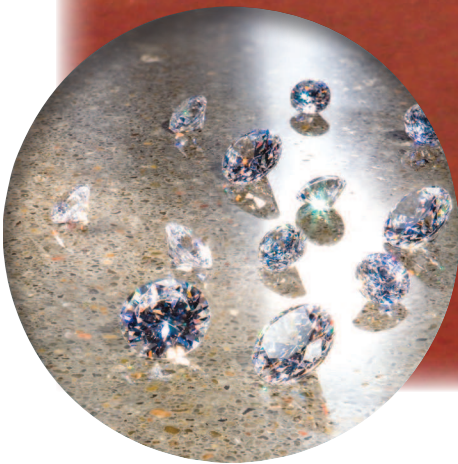


CONSOLIDECK®

HIGH PERFORMANCE CONCRETE

Products for ultimate sustainable concrete floors

Owner's Manual



PROSOCO
SINCE 1939

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'New' can last for years

Your new Consolideck® floor has a density, hardness and appearance unmatched by any other floor of its kind. With proper care it will last the life of your building.

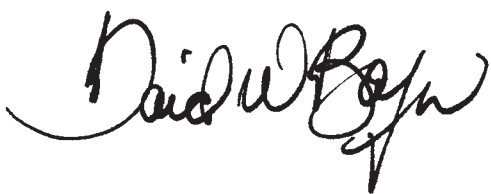
But like anything else – your car, your house, even you! – your Consolideck® floor needs a little attention from time to time to make sure it's bearing up under the demands you place on it.

This manual has guidelines for keeping your Consolideck® floor in peak condition, from routine cleaning to stain removal. In addition, many Consolideck® Applicators offer maintenance services including:

- Periodic inspection and testing
- Training maintenance staffs
- Refreshment or improvement of gloss
- Remedial cleaning and stain removal
- Application or re-application of protective treatments

Even those who don't provide maintenance can usually point you to a qualified provider, or offer advice and guidance.

Your new Consolideck® floor meets documented standards for dustproofing, water-resistance, hardness, gloss and slip-resistance. Who better to help you keep it that way than the one who installed it?



David W. Boyer
President

Maintenance overview

Everything needs maintenance

Fortunately, your Consolideck® finished concrete floor needs less than most. There are three basic parts to keeping your new floor in top condition:

- Cleaning
- Refreshing/Revitalizing
- Testing

Cleaning is obvious. Daily sweeping or mopping helps keep dirt and grime from building up. Of course, clean up spills of anything as soon as they happen.

Your Consolideck® floor is harder and denser than most, so it resists spills better than most. Floors protected with ^{LS}Guard™ are even more resistant – but clean stuff up as soon as you can anyway.

Daily or weekly cleaning with ^{LS}Klean keeps your Consolideck® floor in top condition.

Refreshing is just running a dry high-speed burnisher over the ^{LS}Guard™-protected floor. This is usually enough week-to-week or month-to-month to pop that shine right back to "new." Of course, it'll take some high traffic levels to wear the gloss down enough to where you'll need to refresh.

Revitalizing means reapplying a thin coat of ^{LS}Guard™ and burnishing it in. Doing this a couple times a year – or more if needed – makes sure the floor's gloss level stays high.

You'll probably appreciate the fact that the coating gets re-applied without your having to strip the old coat. And even when revitalizing is needed to bring back the gloss, the protective qualities of ^{LS}Guard™ are still in full force.

Testing – When your Consolideck® applicator installed your floor, it was tested to meet your expectations for hardness, slip-resistance, water-repellency and other qualities.

How long should it meet those standards? Your floor will meet those standards for as long as you take care of it. Just to be on the safe side, though, inspect and test the floor regularly in the same way it was tested when new.

If test results meet or exceed the standards set when the floor was new – congratulations! You're doing a fine job!

If test results dip below those standards, you probably need to tweak your maintenance program a little. Usually that means cleaning and refreshing/revitalizing more often.

Help from your Consolideck® Team Applicator

Many Consolideck® Team Applicators can assist with nearly any or all parts of your maintenance program. Well, maybe not the daily sweeping.

Refreshing/revitalizing, testing, cleaning, stain removal – these are all areas your Consolideck® Team Applicator may be able to handle for you. Some can train your in-house staff on how to care for your Consolideck® floor.

You can also call PROSOCO Technical Customer Care to locate the nearest approved Consolideck® professional in your area. The toll-free number is 800-255-4255.

Maintenance Scheduling

It's just like your car – regular maintenance keeps it running right. For your Consolideck® floor, cleaning, refreshing/revitalizing, and testing need to be done regularly. How regularly depends on two things:

- The appearance you want.
- The performance you demand.

If your brilliant, gem-like polished decorative performance floor gets thousands of visitors daily, you'll probably want to clean, refresh and revitalize more often than the owner of a steel-troweled performance floor in a warehouse.

It really depends on you.

Your Consolideck® Team Applicator can advise you on what you'll need to do to keep the appearance you want in the face of your floor's workload. Regular testing provides more feedback on how your maintenance program is doing.

In general, use Table 1 as a starting point. It's based on type of floor and level of finish.

Keep in mind – the table offers minimum requirements and may not cover all situations.

Cleaning

Routine cleaning is important for keeping your Consolideck® floor performing at like-new standards for the lifetime of the floor. Always clean with ^{LS}Klean. It's made for Consolideck® floors. See the product data sheet for complete application instructions.

Routine Cleaning

1. Clean up spills as fast as possible. Less time on the floor means less chance of stains.
2. Pick up large debris by hand.
3. Sweep or dust-mop entire floor.
4. Auto-scrub entire floor.
 - a. Dilute ^{LS}Klean 4 oz (1:32) per gallon of clean water in an auto-scrubber with moderate pressure.
 - i. Choose pad based on manufacturer recommendations.
 - ii. Auto-scrubbing with ^{LS}Klean, which contains lithium, helps the pads burnish the floor.
 - iii. Dilute ^{LS}Klean 8 oz (1:16) per gallon of clean water for above-average levels of dirt.
 - b. Use a mop for hard-to-reach areas or if you don't have an auto-scrubber.

Never use acidic or alkaline cleaners on Consolideck® floors.

		Type of Consolideck Floor		
Finish Level	Steel Troweled	Performance	Ultimate Performance	Decorative Performance
		Sweep/dust mop daily Clean as needed with ^{LS} Klean	Clean daily with ^{LS} Klean Revitalize every 6 months	
	Honed	Clean weekly with ^{LS} Klean	Clean daily with ^{LS} Klean Revitalize every 6 months	
	Polished	Clean daily with ^{LS} Klean	Clean daily with ^{LS} Klean Revitalize every 6 months	Clean daily with ^{LS} Klean Revitalize every 6 months

Table 1: Suggested minimum maintenance schedule for floor types, by finish level.



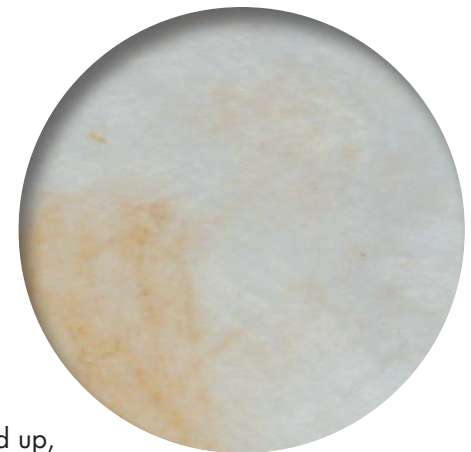
Fig. 1 - Auto-scrubber: An auto-scrubber, using Consolideck® ^{LS}Klean, is the recommended way to clean and prep Consolideck® finished concrete floors.

Stain Management

While Consolideck® floors are considerably more stain-resistant than untreated concrete floors, it's still important to clean up spills quickly.

The faster oil, condiments and other contaminants are cleaned up, the less likely stains will result.

Table 2 on page 4 lists common contaminants and what to do about them.



Stain Type	Solution
Acidic food	Consolideck® Cleaner/Degreaser diluted 1:10 with scrubbing removes most stains. Burnish surface to refresh gloss.
Adhesives	Remove tape with a razor blade. Be careful not to scratch surface. Consolideck® Wax & Cure Remover or acetone will take off adhesive residue. Burnish to refresh gloss.
Alkaline stains	LSGuard™-treated floors will need LSGuard™ reapplied and burnished to refresh gloss.
Blood	Cleaning while fresh prevents most stains. Consolideck® Cleaner/Degreaser diluted 1:10 with scrubbing removes most set stains.
Brake fluid	Consolideck® Oil & Grease Remover. Deep-set stains may take more than one application.
Candy	Remove from the floor. Clean sticky residue with Consolideck® Cleaner/Degreaser diluted 1:10
Chocolate	Consolideck® Cleaner/Degreaser diluted 1:10 with scrubbing gets rid of most stains. Burnish to refresh gloss.
Deicing salts	LSKlean removes residues with burnishing to refresh gloss. If LSGuard™ has been damaged, reapply.
Grease & oil	Cleaning while still fresh prevents most stains. Consolideck® Oil & Grease Stain Remover will pull out set-in stains.
Gum	Remove quickly for best results. Scrape what you can off the surface. Remove residue with LSKlean.
Heel marks	Most shoe marks can be easily removed by rubbing with LSKlean diluted at 4 oz per gallon of fresh water.
Hydraulic fluid	Consolideck® Oil & Grease Remover. Deep set stains may require multiple applications.
Mildew	Enviro Klean® BioWash® removes biological staining
Mustard	Consolideck® Cleaner/Degreaser diluted 1:10 with scrubbing removes most stains. Burnish to refresh gloss if needed.
Soft drinks	Consolideck® Cleaner/Degreaser diluted 1:10 with scrubbing removes most stains. Burnish to refresh gloss if needed.
Tire marks	Consolideck® Cleaner/Degreaser with scrubbing takes off most tire marks.
Water spots	Burnishing gets rid of most water spots quickly. If needed, dilute LSGuard™ 1:1 with water and lightly mist the surface before burnishing to refresh gloss.

Table 2: Common stain types and solutions.

Refreshing / Revitalizing

The gloss levels on Consolideck® floors are affected by many factors. They include traffic, spills, inadequate or improper cleaning, and abrasives like dirt and sand tracked in from outside.

Gloss is easily restored using the following procedures. High-traffic areas may need burnishing more often to maintain gloss. Bi-annual burnishing applications of LSGuard™ will go a long way in maintaining the gloss and reflectance levels the floor had when new.

Because LSGuard™ penetrates into the concrete pores, even when the gloss may have diminished from heavy traffic, it still protects the floor from water- and stain-penetration.

Refreshing

If the floor appears to be losing some gloss, clean with LSKlean. Then run a high-speed burnisher dry over the area of reduced gloss. Even though some of the LSGuard™ may have worn away, there will usually be enough left so that burnishing revitalizes or “pops” the gloss back.

Always clean before burnishing, whether you’re burnishing wet (with LSGuard™) or dry (without LSGuard™). If there’s dirt on the floor, burnishing will grind it in. It’s the same principle as washing your car before you wax it.

Revitalizing

You can also “revitalize” the floor as-needed. Generally, though, revitalizing is done about twice a year across the entire floor. Revitalizing is generally used for spot treatment of high-traffic areas as needed. The procedure ensures maximum gloss and reflectance floor-wide.

Just like with refreshing, clean the floor first.

Dilute LSGuard™ one part product to one part clean water. Spray the diluted treatment lightly on the floor. Burnish with a high-speed burnisher. You don’t have to wait for the floor to dry.

Testing

Your new Consolideck® floor meets certain standards for appearance and performance. Those standards were set in the test-panel stage and confirmed when the floor was finished. They're standards for gloss, hardness, and slip- and water-resistance.

If you've followed the recommendations for the maintenance of your floor, you have a right to expect the floor will continue to meet those original standards for appearance and performance.

Testing – the same tests done on the test panel and on the finished floor – will tell you how your floor is bearing up under the demands placed on it. Testing will tell you if your maintenance program is effective.

The standards

Your finished Consolideck® floor meets these standards: Your floor should be inspected quarterly in its first year by your Consolideck® Team Applicator or other trained Consolideck® professional. Inspections should be annual after that.

Gloss*	plus/minus 10% deviation from test panel
Hardness	plus/minus 10% deviation from test panel
Slip Resistance	>0.60 (as recommended by ADA Title III 1992)
Rilem Tube	<1 ml loss after 20 minutes

Log inspections

Use the inspection logs on page 6 and 7 to track inspections and recommendations. Recording these inspections and recommendations will help you fine-tune your maintenance program to get the best results with the least effort.

Test area

The test area is standardized for all Consolideck® floors. The floor is divided into four sections. The auditor runs the tests in the center of each section, and in the center of the floor.

This ensures a comprehensive evaluation of floor conditions.

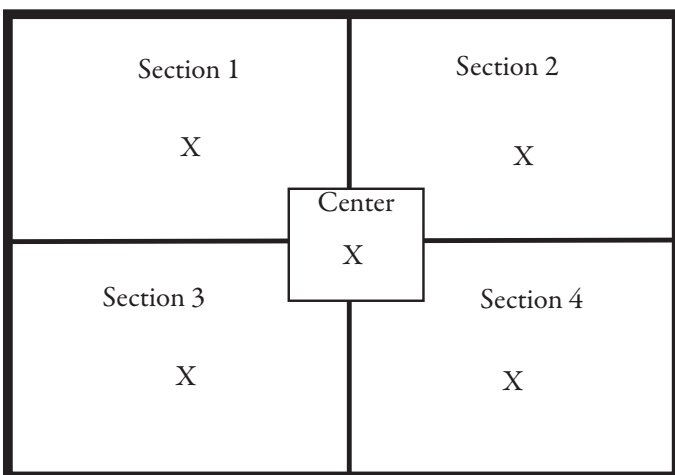


Fig. 2 - Floor Testing: The test procedure divides the entire floor into four sections. Auditors run tests on each section and the center.

Test kit

Consolideck® professionals use a standardized performance test kit to check the performance and appearance of Consolideck® floors from the test panel stage and beyond. The kits have the precision tools needed to fully test the measurable performance of Consolideck® floors. Each kit has a gloss meter, hardness pick set, Rilem tube, optical pyrometer – and a slip meter in a separate case.

Consolideck® professionals are fully trained in the use of the performance test kit.



Fig. 3 - Rilem Tube Test: Consolideck® professionals are trained in the use of the standardized performance test kit. Here, a technician uses the kit's Rilem Tube to check the water-resistance of a Consolideck® Decorative Performance Floor.

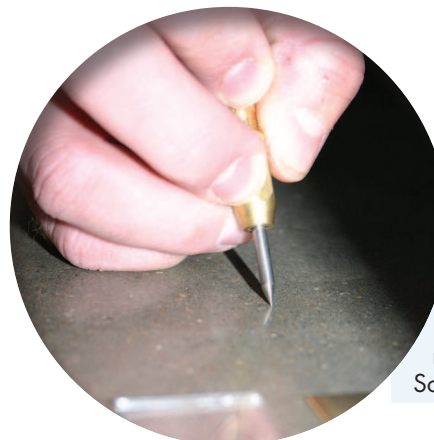


Fig. 4 - Hardness test: Here, a hardness pick is used to test the hardness of a honed performance floor, as measured on the Mohs Scale.

*Gloss tests are only run on ¹⁵Guard™-treated floors.

First-Year Quarterly Maintenance Inspection Log

Date Installation complete: _____

Installer name: _____

Signature: _____

Inspection Dates/Results

Certifier/Recommendations

1st Quarterly inspection: _____

Name/Company: _____

In standards? yes No

2nd Quarterly inspection: _____

Name/Company: _____

In standards? yes No

3rd Quarterly inspection: _____

Name/Company: _____

In standards? yes No

4th Quarterly inspection: _____

Name/Company: _____

In standards? yes No

Annual Maintenance Inspection Log

2nd year Inspection

Date: _____

Certifier

Name/Company: _____

In standards? yes No

Recommendations: _____

3rd year Inspection

Date: _____

Certifier

Name/Company: _____

In standards? yes No

Recommendations: _____

4th year Inspection

Date: _____

Certifier

Name/Company: _____

In standards? yes No

Recommendations: _____

Dustproofing warranty

Your Consolideck® High-Performance finished concrete floor will NOT generate concrete dust if the products are installed correctly and the floor is maintained following the Owner's Manual recommendations. That's why PROSOCO is willing to warrant any Consolideck® floor of any size against dusting for up to 10 years.

Getting the Dustproofing Warranty

All Consolideck® floors are eligible for the Dustproofing Warranty. The applicator gets the warranty certificate from PROSOCO for you shortly after completion of the project.

The guarantee

Subject to certain conditions and limitations, the dustproofing warranty offers this guarantee:

PROSOCO warrants to the Owner that the concrete surface on this project has been treated with the Consolideck® Lithium Silicate product below, and for up to 10 years from the date of treatment, the surface will remain concrete dust proof. If the surface fails to so perform, PROSOCO, Inc. will supply one-time sufficient Consolideck® Lithium Silicate product to re-treat the identified area.

If you have questions about the Consolideck® floor's performance, contact your Consolideck® Team Applicator right away, or contact PROSOCO Technical Customer Care toll-free at 800-255-4255.

Consolideck® Team Applicator contact information

(to be filled out by applicator)

Name: _____

Company: _____

Phone: _____

Address: _____

Thank you for choosing PROSOCO and Consolideck® High-Performance products for finished concrete flooring.



PROSOCO

SINCE 1939

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