

CONSOLIDECK®
HIGH PERFORMANCE CONCRETE

ColorHard

liquid concentrate to produce ready-to-use color hardener



SCIENTIFIC CERTIFICATION SYSTEMS
SCS-IAQ-01606

OVERVIEW

Consolideck® ColorHard is a premeasured color concentrate specially formulated to mix with Consolideck® LS® or LS/CS® to produce a ready-to-use color hardener that colors, hardens and densifies horizontal concrete in one easy step. Many ColorHard colors are suitable for outdoor use, as well as indoor. Add 4-oz of ColorHard to one gallon of LS® or LS/CS® to create a high-performance color hardener.

When combined with Consolideck® LS® or LS/CS®, ColorHard decorates, dustproofs and improves the abrasion-resistance of concrete floors and exterior pavements. High-speed burnish color-hardened surfaces to an attractive luster or treat them with the appropriate Consolideck® protective treatment for added luster, enhanced color, improved stain protection or protection from damage caused by de-icing salts.

Consolideck® ColorHard color concentrates are available in vibrant hues which can be used alone or in combinations for an unlimited range of shades, tints and artistic effects. See the Placement Chart on page 2 for colors specifically approved for exterior use. Supplied as a color concentrate, water-based, environmentally responsible ColorHard minimizes freight, handling, storage and container disposal costs.

ADVANTAGES

- Water-based, environmentally responsible ColorHard saves time, reduces waste and eliminates hazards associated with corrosive acid stains or highly flammable solvent-reduced dyes.
- Many ColorHard colors are suitable for outdoor use, even in extreme climates.
- Vibrant colors change gray or white concrete into abrasion-resistant, dust-proof, colorful,

decorative concrete. Layer or blend to create unlimited color and design variations.

- Great for any-age trowel-finished, ground or textured concrete.
- May be used over integrally colored concrete, shake-on color hardeners, acid-stained concrete or concrete colored with solvent-reduced dyes.
- VOC Compliant. Non-flammable. Non-toxic. Non-corrosive. Low odor. Suitable for use in occupied spaces.
- Contains no harmful acids. Will not etch concrete or corrode nearby metals. Will not peel or flake. No need to neutralize.
- Two coats increase color intensity and may partially mask surface imperfections.
- Easy application with low-pressure spray and push broom or microfiber pad.

Limitations

- ColorHard floors require protective treatments. See "Sealing" section for details.
- Consolideck® ColorHard is translucent. It may not hide or mask variations in the concrete.
- Some colors are intended for interior use only. See Placement Chart, page 2.
- Not for surfaces exposed to standing water.
- Not for concrete floors polished higher than the equivalent of #200 grit resin bond diamonds. Use Consolideck® GemTone Stains for highly polished interior concrete floors.

SPECIFICATIONS

For all PROSOCO product specifications visit www.prosoco.com and click on "SpecBuilder" or "Solution Finder."

REGULATORY COMPLIANCE

VOC Compliance

Consolideck® ColorHard is compliant with the following national, state and district AIM VOC regulations

- US Environmental Protection Agency
- California Air Resources Board SCM Districts
- South Coast Air Quality Management District
- Maricopa County, AZ
- Northeast Ozone Transport Commission

TYPICAL TECHNICAL DATA

FORM	colored liquid concentrate
SPECIFIC GRAVITY	1.2 – 2.0
pH	6.5 – 9.5
WT/GAL	10 – 16.5 lbs
ACTIVE CONTENT	50–70%
TOTAL SOLIDS	50–70%
VOC CONTENT	< 100 g/L as used
FLASH POINT	No data
FREEZE POINT	32°F (0°C)
SHELF LIFE	1 year in tightly sealed, unopened container

PREPARATION

Protect people, vehicles, property and any surface not to be treated from contact with the product or over spray. Use polyethylene or other proven protective material. Avoid duct tape or other masking materials that leave adhesive residues which inhibit penetration of the color hardener.

To ensure penetration and reaction of color hardeners, the concrete surface must be clean and dry. Contaminants may prevent penetration of ColorHard, leaving excess pigment on the surface.

Remove curing compounds and other contaminants using the appropriate Consolideck® surface preparation cleaner. Visit www.consolideck.com or call Technical Customer Care toll-free (800-255-4255) for recommendations on specific conditions.

Interior Concrete: Grind starting with #50 grit (or lower) metal bond diamonds. Smooth and level the floor to achieve the desired finish. Do not exceed #200 grit resin bond diamonds before application. Do not grind or polish after applying ColorHard.

Exterior Trowel-Finished or Broom-Finished Concrete: Remove any curing compounds using Consolideck® Wax & Cure Remover or

Cure & Seal Remover. Clean the concrete with Consolideck® SafEtch® to open the surface pores and ensure more uniform coloring.

After cleaning, lightly spray random areas of the floor or pavement with clean water. If surface does not wet uniformly, more prep is needed.

Remove dust and debris using a floor scrubbing machine and fresh water. A low-pressure power washer may be used on textured or exterior surfaces. Let wet surfaces dry.

Protect new concrete from all construction activities before color-hardening. Do not store building materials on newly placed concrete surfaces. Prevent standing water.

Concrete recently treated with a penetrating water repellent or "salt screen" may not accept ColorHard. Always test.

Surface and Air Temperatures

For best results maintain consistent air flow and surface temperatures during application. Surface and air temperatures should be 50–90°F (10–32°C).

Equipment

Use a clean, low-pressure sprayer with a fine, conical spray pattern. Wear "spiked" shoes when walking in wet ColorHard.

On smooth surfaces, spread the mixed color hardener with a clean microfiber pad. Use brushes, rollers or rags for artistic effects.

On heavily textured surfaces, spray apply and then spread the color hardener with a clean brush or soft push broom, if needed.

Storage and Handling

Store in a cool, dry place. Once opened, use entire contents of ColorHard 4-oz package per 1 gallon of Consolideck® LS® or LS/CS®. Apply within 24-hours.

Over spray and spills may be difficult or impossible to remove. Protect surfaces not set for coloring with plastic during mixing and application.

ALWAYS TEST

ALWAYS TEST a small area of each surface to confirm suitability and desired results before starting overall application. Test with the same equipment, recommended surface preparation and application procedures planned for general application.

Published shelf life assumes storage of unopened ColorHard in a dry place. Maintain temperature of 45–100°F (7–38°C). Keep from freezing. Do not crush or tear. Dispose of unused product and container in accordance with local, state and federal regulations.

APPLICATION

Visit www.consolideck.com for the most up-to-date application procedures and tips.

Before use, read "Preparation" and "Safety Information." **ALWAYS TEST** each surface before overall application. Use the following application instructions. Let the surface dry well before inspection.

Floor composition and finish affect final color. Include representative imperfections in the test area to assess impact on the color-hardened concrete floor. Two coats of ColorHard may help mask variations.

Mixing Instructions

Consolideck® ColorHard color concentrate must be mixed with Consolideck® LS® or LS/CS® before application. Shake the 4-oz package well to mix thoroughly. Combine one shaken 4-oz package with 1-gallon of LS® or LS/CS® to make ready-to-use color hardener. Mix well before and during each use. Apply within 24 hours.

When environmental conditions cause rapid drying, mix ColorHard with Consolideck® LS/CS®.

For maximum densification, mix ColorHard with Consolideck® LS®.

PLACEMENT CHART

Interior/Exterior Colors	Interior Only Colors
Amber	Copper Patina
Blue Stone	Emerald
Bronze	Painted Desert
Brown Stone	Red Rock
Caribbean Blue	Rose Quartz
Concrete Gray	Serpentine
Desert Sand	Welsh Slate
Espresso	
Georgia Clay	
Graphite	
Light Roast	
Mocha	
Black	
White	

ColorHard

When applying White ColorHard, two 4-oz packages may be added to 1-gallon of Consolideck® LS® or LS/CS® to improve hide and color intensity. Additional care will be required to avoid streaking during application.

To reduce color intensity, add more LS® or mix with Consolideck® LS/CS®.

To increase color intensity, apply two coats of prepared ColorHard.

Prepared ColorHard colors may be blended or layered for unlimited colors and effects. Only blend prepared color hardeners. Do not blend color concentrates.

Warm exterior concrete may be misted with clean water to cool the surface prior to application of ColorHard.

Typical Coverage Rates

Coverage rates are for estimating purposes only.

- 400–800 square feet per US gal
- 37–74 square meters per US gal
- 9–18 square meters per liter

Variations in concrete quality, porosity, job-site conditions, temperature and relative humidity affect coverage rates and dry times. Calculate the Target Coverage Rate by mixing one gallon and treating a representative area of the prepared surface. Use the following application instructions.

Application Instructions

1. Apply mixed, ready-to-use color hardener to a clean, dry, properly prepared concrete floor with low-pressure spray and a conical spray tip. Do not atomize. Wet the surface without producing puddles. Do not over apply. Two light applications produce better results than one heavy application. Over application may result in streaking. Use a small bucket or rag to collect drips when not spraying.
2. *On smooth surfaces*, spread with a clean microfiber pad prewet with the mixed, ready-to-use color hardener. Apply in a smooth, irregular pattern to minimize streaks. Two

people — one spraying and one spreading — get best results.

On textured surfaces, spread with a clean, soft fibered push broom.

Do not overwork or spread the product once it begins to dry. For a more mottled appearance, spray apply without spreading.

3. Let the floor dry at least one hour. Stay off wet surfaces.
4. Repeat steps 1–3 for increased color intensity and surface hardening.
5. When dry, burnish smooth surfaces using a high-speed burnisher fitted with a #800 grit (or higher) diamond-impregnated pad. Burnishing removes excess pigments and enhances surface luster. Failure to remove excess pigments may cause color-tracking.
6. Clean the floor with an auto-scrubber and fresh water. Collect ponded water. Let surfaces dry.

Sealing

Protect color-hardened surfaces with one of these Consolideck® protective treatments.

Interior Concrete: for maximum protection and surface sheen, use Consolideck® LSGuard® or PolishGuard.

Exterior Concrete: for maximum protection or for concrete subjected to power washing or traffic, seal with Consolideck® DuraSheen, GuardEXT or other approved film-forming sealer.

Consolideck® LSGuard® — improves color intensity, surface sheen, hardness and stain resistance. Interior only.

Consolideck® PolishGuard® — resists staining and etching from common food and household cleaning products. Interior only.

Consolideck® GuardEXT® — enhances color while improving stain resistance on concrete new or old. Exterior only.

Consolideck® DuraSheen® — improves depth of color intensity, surface sheen and stain resistance. Interior or exterior.

Consolideck® SL100 Water Repellent® — deep penetrating, colorless protection from water- and salt-related damage. Interior or exterior.

BEST PRACTICES

Notify all trades that the concrete surface will be the finished floor. Take extra care to prevent damage to the floor during ongoing construction.

Before application, lightly spray random areas of the concrete with clean water. If it does not wet uniformly, more prep is needed. Thoroughly neutralize and rinse acid-stained concrete before ColorHard application.

If grinding, grind the floor smooth and level BEFORE coloring. Do not grind after application.

Thoroughly mix ColorHard and LS® or LS/CS® before and during each use. Apply within 24-hours. On smooth surfaces, spread ColorHard evenly using a microfiber pad with firm downward pressure. On textured surfaces, spray apply and then use a clean, densely packed, soft natural-fibered push broom, if needed.

Mask nearby surfaces to control color bleeding. Use shallow saw cuts to separate different colors. Keep a wet edge by dividing the floor into small working areas. Use control joints, walls and other fixed objects as termination points. When practical, stop the day's work at such a point. Sequence application to lessen traffic on wet color-hardened floors.

After drying, burnish smooth color-hardened surfaces to remove excess color and enhance surface sheen.

For higher surface sheen, protect interior color-hardened surfaces with Consolideck® LSGuard®.

Never go it alone. For problems or questions, contact your local PROSOCO distributor or field representative. Or call PROSOCO technical Customer Care toll-free at 800-255-4255.

ColorHard

Consolideck® SLX100® Water & Oil Repellent – deep penetrating, colorless protection from water- and salt-related damage, petroleum and food-related staining. Interior or exterior.

Consolideck® SLX100® Water & Oil Repellent <350 – low VOC, deep penetrating, colorless protection from water- and salt-related damage, petroleum and food-related staining. Interior or exterior.

Consolideck® Saltguard® – penetrating, colorless protection from water- and salt-related damage. Interior or exterior.

Consolideck® Saltguard® WB – water-based penetrating, colorless protection from water- and salt-related damage. Interior or exterior.
NOTE: Over application of Saltguard® WB can yield a white residue. Perform a test area first to confirm desired results and coverage rates.

Cleanup

Remove all tape and plastic sheeting as soon as practical. Before product dries, clean tools and equipment with soap and water.

Final Results

The floor is ready to use when dry. It should show reduced water absorption and the desired sheen. Maximum water resistance develops over 7 days.

During ongoing construction, protect finished floors with a breathable covering, such as kraft paper to prevent damage.

Maintenance

Sweep the floor daily with a microfiber pad or dry dust mop.

Use only maintenance cleaners and cleaning pads and/or brushes designed for finished concrete flooring.

Use Consolideck® LSKlean Super Concentrate or Consolideck® DailyKlean for regular maintenance cleaning. LSKlean Super Concentrate contains lithium-silicate which improves hardness and density, as well as help preserve sheen while cleaning.

NOTE: the use of aggressive scrubbing pads, improper cleaning solutions or high pressure rinsing may damage finished concrete flooring and paving. ALWAYS TEST to ensure desired results. Call Customer Care at 800-255-4255 for further recommendations.

SAFETY INFORMATION

Consolideck® ColorHard is an aqueous coating solution. Use appropriate safety equipment and job site controls during application and handling. Read the full label and MSDS for precautionary instructions before use.

First Aid

Eye Contact: Flush with water for a least 20 minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice after flushing.

Skin Contact: Wash area with soap and water. Get medical attention if irritation develops or persists.

Ingestion: DO NOT INDUCE VOMITING. Immediately give 2 glasses of water. Contact a physician.

Inhalation: If breathing is difficult, remove to fresh air and give artificial respiration. Call a physician or transport to a medical facility if cough or other symptoms develop.

24-Hour Emergency Information:
INFOTRAC at 800-535-5053

WARRANTY

The information and recommendations made are based on our own research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application of our products, nor anticipate every variation

encountered in masonry surfaces, job conditions and methods used. The purchasers shall make their own tests to determine the suitability of such products for a particular purpose.

PROSOCO, Inc. warrants this product to be free from defects. **Where permitted by law, PROSOCO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of merchantability or fitness for particular purpose.** The purchaser shall be responsible to make his own tests to determine the suitability of this product for his particular purpose. PROSOCO's liability shall be limited in all events to supplying sufficient product to re-treat the specific areas to which defective product has been applied. Acceptance and use of this product absolves PROSOCO from any other liability, from whatever source, including liability for incidental, consequential or resultant damages whether due to breach of warranty, negligence or strict liability. This warranty may not be modified or extended by representatives of PROSOCO, its distributors or dealers.

CUSTOMER CARE

Factory personnel are available for product, environment and job-safety assistance with no obligation. Call 800-255-4255 and ask for Customer Care - technical support.

Factory-trained representatives are established in principal cities throughout the continental United States. Call Customer Care at 800-255-4255, or visit our web site at www.prosoco.com, for the name of the Consolideck® representative in your area.