



Pentra-Sil®

(C&N) Concrete Cleaner and Neutralizer

Convergent Concrete Specialty Chemical Concrete Treatments

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(Patented) Nano Lithium™ (NL)
Concrete Floor Treatments

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PRODUCT DESCRIPTION

PROTECTS AGAINST SWEATING AND ALKALINITY PROBLEMS

Pentra-Sil® (C&N) cleans and neutralizes concrete that suffers from efflorescence, sweating, and other alkalinity problems. Pentra-Sil® C&N (Lithium fixer for Concrete Efflorescence and Sweating Problems) works by infusing lithium ions into the substrate—these ions calm alkali reactions between aggregate and Portland cement thereby reducing the formation of alkali salts and sweating. (For serious problems we recommend a full treatment of Pentra-Sil® C&N, AC, and Pentra-Sil.) Pentra-Sil® C&N is also excellent for cleaning concrete after diamond polishing. C&N removes fine particles and dust that can reduce shine.

KEY BENEFITS ADVANTAGES

- Stabilizes and fortifies concrete surfaces by infusing lithium ions into the substrate
- Neutralizes concrete that suffers from efflorescence, sweating, and other alkalinity problems.
- Helps prevent efflorescence and the leaching of lime.
- Removes fine particles and dust that can reduce shine.
- Excellent for cleaning concrete after diamond polishing.

USE & TECHNICAL SPECIFICATIONS

PACKAGING

5 Gal Plastic Pail	44.7 lbs	20.3 kgs
55 Gal Drum	492 lbs.	223 kgs
Tote (275 Gals)	2459 lbs.	1115 kgs



Foreground treated with Pentra-Sil®(C&N) and Pentra-Sil®(NL)

COVERAGE / TREATMENT YIELD*

Typical Coverage Rates: 250-400 sq. ft. per gallon

*Coverage rate will vary with concrete quality, finish, and environment

DRYING TIME

1-2 hours

PHYSICAL PROPERTIES

Form	Clear to colorless aqueous solution, slightly acidic
Active Ingredients:	100% of total solids
Specific Gravity:	1.07
Flash Point:	N/A
Freeze point	32°F(0°)
Coefficient of Friction	Does not change floor friction coefficient*
Depth of Surface Penetration	2-8mm
Shelf Life	1 year in factory sealed container

*Must employ all recognized slip and fall prevention techniques

APPLICATION PROCEDURES & INSTRUCTIONS

1. Thoroughly clean the substrate so it is free of all foreign materials such as bond breakers, curing agents, form release oils, dust, construction laitance, drywall residue etc. The surface should be dry before proceeding.
2. Use a low-pressure sprayer to apply Pentra-Sil® C&N so as to saturate the surface.
3. Work the C&N into the surface using an automatic scrubber or stiff broom to enhance penetration. Allow the C&N to dwell and penetrate 20-30 minutes. Keep the surface moist with C&N for 20 to 30 minutes (adding more product if necessary).
4. Remove all residual C&N with clear water. Let the surface dry.

Make certain the most current versions of Pentra-Sil® (C&N) Product Data sheet and MSDS are being used; Please read this information prior to use; call Customer Service (1-866-375-2280) to verify the most current versions or visit our website: www.convergentconcrete.com/product/productCN.html

Proper application is the responsibility of the user. Field visits by Convergent Concrete personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

LIMITATIONS

- Pentra-Sil® C&N is Not suitable for asphaltic or non cementitious surfaces or painted surfaces
- Pentra-Sil® C&N Will not bridge or fill cracks and will not salvage honeycombed or structurally unsound surfaces.
- Pentra-Sil® C&N is Not recommended for plastic concrete or mortar or resin-based terrazzo mixes.
- Do not allow Pentra-Sil® C&N to dry on terrazzo (resin-based) floors except as indicated in application instructions.
- Do not allow Pentra-Sil® C&N to come in contact with any glass, fabric, metal, or painted surfaces. Immediately wipe contaminated surfaces with a clean water-saturated cloth, then wipe dry with a second clean cloth.

CUSTOMER SERVICE:

(1-866-375-2280) to verify the most current versions or visit our website: www.convergentconcrete.com/product/products.html

- For subsequent coatings applications, perform proper surface preparation and consult the coating manufacturer for more instructions.

CLEAN UP

Use water to clean tools and equipment. Pentra-Sil® (C&N) treatments are environmentally friendly and require no special or hazardous disposal methods.

MAINTENANCE

Routine sweeping, mopping, washing and mechanical scrubbing of floors with water and neutral pH cleaners (if necessary) is recommended. Water only is sufficient for most environments.

DO NOT USE cleaners that are acidic or that have citrus (de-limonene) or Butyl compounds. Although Pentra-Sil® (C&N) is chemically resistant and helps reduce staining, its application in specific chemical environments and some acidic concentrates, may etch the surface causing a residual stain. If unsure checked with a Convergent Concrete technical representative. Regular maintenance and cleaning will help prolong surface shine. Wipe up any chemical spills as soon as possible. Prior to painting, stripping, or applying resilient tile wait 6-12 hours after application and conduct an adhesion test. Use a stiff broom or power sweeper to remove dirt and dust. Please consult the manufacturer to inquirer about surface preparation and recommendations. Always test adhesion and performance for suitability and desired results before application.

AVAILABILITY

Treatments must be applied by an "Authorized Applicator" or "Licensed Field Service Specialist." Pentra-Sil concrete treatments are available from Factory Direct Concrete Floor Care Centers or direct "Authorized Applicators" from our plant and warehouse in Orem, Utah. For the name and telephone number of your nearest Pentra-Sil representative, call our customer service department listed on the back page.

COST

Pentra-Sil® (C&N) treatments are competitively priced. Costs will vary from region to region. A Pentra-Sil® (C&N) representative can provide price information or assist in contacting the nearest Pentra-Sil stocking Concrete Floor Care Center.

TECHNICAL SERVICE

CUSTOMER CARE:

Toll Free 866-375-2280 or
801 375 2280

EMAIL:

technicalservice@convergent
concrete.com

WEB:

www.convergentconcrete.com

TECHNICAL SERVICES

A staff of factory trained service personnel offers design assistance and technical support. For technical assistance, contact our Technical Service Department: Technical Service Customer Care Toll Free 866-375-2280 or 801 375 2280 Email: technicalservice@convergentconcrete.com or go to www.convergentconcrete.com

FILING SYSTEMS

Architects' First Choice®
MANU-SPEC®
Sweet's®
Arcat®

HEALTH AND SAFETY PRECAUTIONS

Pentra-Sil® (C&N) is an aqueous Lithium silicate solution that uses proprietary compounds. The treatment is mildly alkaline and may cause eye and skin irritation.

KEEP OUT OF THE REACH OF CHILDREN. Do not take internally. Avoid prolonged contact with skin. Avoid ingestion of material. If swallowed, do not induce vomiting – call physician. Avoid contact with eyes. Protective clothing is recommended. Protective goggles are recommended in case of splashing. If splashed in eyes, wash immediately with clean water and call physician. Contact areas should be thoroughly washed with soap and water. Additional precautions, safety information and first aid treatments are contained in the Material Safety Data Sheet. Pentra-Sil will etch glass and painted surfaces. Immediately wash off with water all overspray from glass and painted surfaces. Caution: Surfaces wet with Pentra-Sil may result in a slippery surface

For medical emergencies only,
call Infotrac (800) 535-5053
Outside USA (352) 323-3500

FOR INDUSTRIAL USE ONLY

Not for sale to or resale to general public. For professional use only and must be applied by an authorized applicator or licensed field service specialist.

WARRANTY

LIMITED WARRANTY NOTICE Every reasonable effort is made to apply Convergent Concrete exacting standards both in the manufacture of our products and in the information that we issue concerning these products and their use. We warrant our products to be of good quality and will replace or, at our election, refund the purchase price of any products proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement or refund, Convergent Concrete **MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, RESPECTING ITS PRODUCTS,** and Convergent Concrete shall have no other liability with respect thereto. Any claim regarding product defect must be received in writing within one (1) year from the date of shipment. No claim will be considered without such written notice or after the specified time interval. User shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith. Any authorized change in the printed recommendations concerning the use of our products must bear the signature of the Convergent Concrete Research Director. This information and all further technical advice are based on Convergent's present knowledge and experience. However, Convergent assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights. In particular, Convergent disclaims all **WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. CONVERGENT CONCRETE SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND.** Convergent Concrete reserves the right to make any changes according to technological progress or further developments. It is the customer's (Authorized Applicator) responsibility and obligation to carefully inspect and test any incoming goods. Performance of the product(s) described herein should be verified by testing and carried out only by qualified experts. It is the sole responsibility of the customer to carry out and arrange for any such testing. Reference to trade names used by other companies is neither a recommendation, nor an endorsement of any product and does not imply that similar products could not be used.

Other Pentra™ Treatments

Pentra-Sil® (NL)

Concrete Chemical Hardener, Sealer, and Densifier

Pentra-Sil® (244+)

Salt Protection and Dust Proofer -Hardener, Sealer, Densifier

Pentra-Guard™ (HP)

High Performance Surface Hardener and Protective Clear Coat.

Pentra-Sil® (AC)

Alkalinity Control Formula and Primer

Pentra-Guard™ (EXT)

Exterior Surface Hardening and Protective Clear Coat.

Pentra™ Protective Coating

Industrial Topcoat Finish and Surface Hardener.

Pentra™ (MMC) Penetrating Sealer

Exterior Mold and Mildew Control

TRANSIL™

Traffic Marking and Safety Paint

For additional information on Pentra-Sil® (CN) Concrete Concrete Cleaner and Neutralizer or any of our other specialty Pentra™ treatments contact your local Specialty Chemical **"Concrete Floor Care Center"** or local dealer representative for an **"Authorized Applicator."**

Unique Strengths, Unmatched Performance.™

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