



# Pentra-Sil®

## (AC) Alkalinity Control Formula Primer

Convergent Concrete  
Technologies, LLC.

Specialty Chemical Concrete  
Treatments

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[www.convergentconcrete.com](http://www.convergentconcrete.com)



nanoLithium

Patented Technologies by Advan

Nano-Lithium® (NL) Concrete Treatment

### PRODUCT DESCRIPTION

Pentra-Sil® (AC) is an advanced lithium-based alkalinity control treatment specifically designed for use on sweating, efflorescing or high pH surfaces. This unique product neutralizes the surface and reduces sweating and vapor drive that carries alkaline salts to the surface of the concrete. Nano-Lithium® technology densifies and hardens the surface, increasing abrasion resistance.

High pH levels at the surface of concrete are often made worse by the application of sodium or potassium silicate and silicate-based products. The higher pH can attract moisture as Mother Nature acts to equalize an imbalance by drawing moisture from the concrete slab towards the surface or from the air above the slab. By permeating the surface with Pentra-Sil® (AC), this pH imbalance can be mitigated to help prevent alkaline salts from reacting with carbon dioxide to form efflorescence. \*\*For more extreme symptoms we recommend a full treatment consisting of Pentra-Sil® (C&N) followed by Pentra-Sil® (AC).

### KEY BENEFITS

- Reduces sweating and efflorescence
- Neutralizes the surface and reduces alkalinity
- Reduces vapor drive that carries alkaline salts to the surface of concrete
- Densifies and hardens the surface to increase abrasion resistance
- VOC compliant, may contribute to LEED points (IEQ credit)

**Customer Service:**

Call 1-866-375-2280

**Visit our website:**

[www.convergentconcrete.com](http://www.convergentconcrete.com)

**Or scan the code:****USES**

Grocery Stores, Parking Garages, Fire Stations, Sidewalks, Driveways, Loading Docks, Aircraft Hangars, Automotive Dealerships, Shipping Terminals, Vehicle Maintenance Areas, Office Buildings, Healthcare Facilities, Cafeterias/Restaurants, Correctional Institutions, Retail & Shopping Centers, Schools, Stadiums, Veterinary Clinics, Common Areas, Laboratories, Lobbies, Mechanical Rooms, Mezzanines, Manufacturing Facilities, Warehouses, Storage, Distribution Centers, Food Processing Plants, Textile Mills, Wastewater Treatment Plants, Pharmaceutical Plants, Electronic Facilities, Cold Storage/Freezers, Beverage Bottling Plants, Chemical Processing Plants, etc.

**APPLICATION**

Apply only when temperatures will be above 40°F (4°C) for at least 2 hours following application.

Clean surface to remove any dirt, laitance, curing compounds or coatings that may prevent Pentra-Sil® (AC) from penetrating. Do not use citrus or acidic cleaners. If acidic or d-limonene cleaners have been used, neutralize the surface using an alkaline cleaner (TSP, Tide laundry detergent, etc.).

Using a sprayer, apply Pentra-Sil® (AC) evenly on the surface. Work the Pentra-Sil® (AC) into the surface using an automatic scrubber or stiff broom to enhance penetration. Keep the surface wet with product for at least 20 minutes, adding more product where needed. Remove and rinse all residual Pentra-Sil® (AC) with clean water.

The surface is ready for use when dry.

*\*It may be necessary to spray water on hot concrete with a surface temperature above 90°F (32°C) to cool the surface prior to application so Pentra-Sil® (AC) does not flash-dry on the surface. Proceed with product application once the surface is dry.*

*\*Before application, always do a small test sample in a less-visible area to be sure there are no variables or contaminants in the substrate that may be incompatible with this product.*

**ESTIMATED COVERAGE**

Machine-troweled: 400-550 ft<sup>2</sup> per gallon (9.8-13.5 m<sup>2</sup> per liter)

Broom-finished: 250-350 ft<sup>2</sup> per gallon (6.1-8.6 m<sup>2</sup> per liter)

\*Coverage rate will vary with concrete porosity and environmental conditions.

**CLEAN UP**

Use soap and water to clean tools and equipment. Although Pentra-Sil® (AC) is non-toxic and environmentally safe, it is alkaline. Use up or dry out extra material and dispose of according to local regulations. Do not pour into sewer systems or storm drains.

**MAINTENANCE**

Clean with Pentra-Clean™ (CR), Pentra-Clean™ (DC) or neutral pH cleaners as needed. If additional protection or gloss is desired, apply Pentra-Finish™ (HG), Pentra-Pel™ (SI), or Pentra-Guard® (EXT). Consult a Convergent Concrete Representative for further information.

**Technical Service**

Customer Care:

Toll Free 866-375-2280  
or 801-375-2280

**Email:**

info@convergentconcrete.com

**Web:**

www.convergentconcrete.com

**For Chemical/Medical  
Emergencies:**

Infotrac 800-535-5053  
Outside USA 352-323-3500

**SAFETY/HEALTH INFORMATION**

KEEP OUT OF REACH OF CHILDREN.

Do not drink. If swallowed, do not induce vomiting; drink two glasses of water and call a physician. Wear goggles and gloves. If splashed in eyes, rinse eyes immediately with clean water and call a physician if irritation persists. Clean skin with soap and water.

CAUTION: Surfaces wet with Pentra-Sil® (AC) may be slippery.

Additional precautions, safety information and first aid treatments are contained in the Safety Data Sheet.

**PROPERTIES**

Form: Liquid

Color: Opaque, dries clear

Odor: Slight to none

Total Solids: 7.4%

Specific Gravity: 1.05

pH: 11-12

VOC Content: <50g/L

Flash Point: N/A

Freeze Point: 32°F (0°C)

Shelf Life: 1 year in unopened, sealed container

**PACKAGING**

1-Gal Jug • 3.79 L

5-Gal Pail • 18.93 L

55-Gal Drum • 208.20 L

275-Gal Tote (IBC) • 1040 L

**LIMITATIONS**

May not resolve all sweating or efflorescence problems. Use Pentra-Sil® (C&N) prior to Pentra-Sil® (AC) for more difficult symptoms. Pentra-Sil® (AC) will not bridge or fill cracks and will not salvage honeycombed or structurally unsound surfaces. Not suitable for asphalt, non-cement surfaces or painted surfaces. Paint and coatings may be applied over the top of Pentra-Sil® (AC).

If Pentra-Sil® (AC) comes into contact with glass, fabric, metal, or painted surfaces, immediately wipe contaminated surfaces with a damp cloth, then wipe dry with a second clean cloth.

Make certain the most current versions of the Pentra-Sil® (AC) Product Data Sheet and SDS are being used. Call Customer Service (1-866-375-2280) or visit our website (www.convergentconcrete.com) to find additional tips, guidelines and specifications.

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 job site.

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**WARRANTY**

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Refer to [www.convergentconcrete.com](http://www.convergentconcrete.com) for latest Technical Data Sheet and MSDS.

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**UNIQUE STRENGTHS, UNMATCHED PERFORMANCE™**

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