



Pentra-Sil®  
(HD) Hardener,  
Densifier

Convergent Concrete  
Technologies, LLC.

Specialty Chemical Concrete  
Treatments

115 North 1380 West  
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United States of America

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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® (HD) is a high solids Nano-Lithium™ densifier that provides optimal hardening and adds a slight sheen to the surface of the substrate. Pentra-Sil® (HD) is best for existing concrete surfaces to increase abrasion and stain resistance and eliminate dusting. It is also suitable for concrete polishing procedures, enhancing the surface appearance and prolonging the life of polished finishes. This solution is VOC compliant in all areas of the world.

#### KEY BENEFITS:

- Increases abrasion resistance
- Penetrates, no film to lift or peel off
- Reduces efflorescence and surface sweating
- Does not contribute to surface ASR or promote crazing
- Prolongs finish of polished surfaces
- Resists stains and dusting, making concrete and facilities easier to maintain
- 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**

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**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® (HD) 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® (HD) evenly on the surface. Keep the surface wet with product for at least 20 minutes, adding more product where needed.

On newly placed, broom-finished concrete, Pentra-Sil® (HD) may be applied seven days following finishing. As the material dries into the surface, spread out any puddles with a soft bristle broom or a flat microfiber pad. If curing materials have been applied, it may be necessary to apply Pentra-Sil® (HD) at a later time after removing the cure.

On machine-troweled, dyed, acid stained, or integrally colored concrete, after 20-30 minutes of dwell time, use scrubbing equipment with water to rinse the surface and pick up excess material.

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® (HD) 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: 550-750 ft<sup>2</sup> per gallon (13.5-18.4 m<sup>2</sup> per liter)

Broom-finished: 200-400 ft<sup>2</sup> per gallon (4.9-9.8 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® (HD) 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® (HD) may be slippery.

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

**PROPERTIES**

Form: Liquid

Color: Green tint, dries clear

Odor: Slight to none

Total Solids: 16.0%

Specific Gravity: 1.11

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**

Pentra-Sil® (HD) 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® (HD).

If Pentra-Sil® (HD) 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® (HD) Product Data Sheet and SDS are being used. Call Customer Service (1-866-375-2280) or visit our website ([www.convergentconcrete.com](http://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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