

PENTRA-SIL® (IH)

Hardener / Densifier



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

Concrete & Terrazzo

For use in the Grinding and Polishing Process
(Metal / Resin Bonded Abrasives) of Concrete and Terrazzo Surfaces.



CONVERGENT
CONCRETE TECHNOLOGIES

Convergent Concrete Technologies, LLC.
Specialty Chemical Concrete Treatments
Commercial Products Group
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TECHNICAL SERVICE

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Ideal for Re-Polishing and Restoring Worn and Damaged Surfaces

ADVANTAGES

- Deepens clarity and heightens reflectivity (gloss)
- Penetrates and seals existing hardened floors
- Improves chemical and water resistance
- Increases abrasion resistance
- Reduces alkalinity / efflorescence
- Extends the service life of the floor
- User friendly, non-whitening
- Easy to use and maintain
- Environmentally friendly — VOC compliant
- Interior / exterior use

DESCRIPTION

Pentra-Sil®(IH) is an economical cost-effective treatment formulated for architectural concrete and terrazzo surfaces to rapidly produce a harder surface that is easy to grind and polish. Its deep-penetrating, non-soluble characteristics provide longer life and higher reflectivity, helping reduce floor maintenance cost.

This environmentally friendly treatment reduces alkalinity (efflorescence), improves overall abrasion resistance and reduces dusting.

Used during the production (grinding and polishing) of concrete or terrazzo surfaces. It is designed to enhance the process, making it easier to re-profile as well as reduce costly wear and damage to diamond abrasives.



nanoLithium

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Concrete Floor Treatments

extraordinarily friendly



lithium treatments

Go Green



When properly installed, Pentra-Sil® (IH) will not leave surface bloom (whitish film or residual deposits) that are difficult to remove. Simple application requires only one treatment, with no brooming or rinsing (compared to Sodium or Potassium chemistry which requires multiple coats, brooming, rinsing, and hazardous rinse-water disposal). Pentra-Sil® (IH) will not contribute to alkali-silica reactivity (ASR). Pentra-Sil® (IH) inhibits alkali salts (efflorescence) and sweating in concrete/masonry surfaces.

GENERAL DIRECTIONS

Typical Coverage Rates: Concrete ground to 100-200 grit typically requires an application rate of approximately 400-500 sq. ft. per gallon (12-15m²/L).

The application rate is determined by the porosity of the surface. Previously densified floors require less material than non-treated floors.

APPLICATION INSTRUCTIONS

1. Grind the concrete to an initial surface profile (100-200 grit). This step opens up the surface ensuring better penetration.
2. Mix, shake or stir thoroughly before applying.
3. Depending on size of work area, product can be applied with a pump up sprayer or a high volume, low-pressure sprayer (HVLPP). Apply Pentra-Sil® (IH) to the surface evenly at the rate of approximately 400-500 sq. ft. per gallon. Lightly broom out any puddles immediately after the material has been applied. Allow material to remain on the surface for 20-30 minutes. **DO NOT LET ANY AREA DRY OUT** during this time. Add more Pentra-Sil® (IH) as needed in order to maintain a uniformly wet surface.
4. After material has penetrated and is no longer glistening on the surface, continue grinding and polishing to the intended final surface profile and desired finish. If using a wet polishing method, or on integrally colored concrete, we recommend using an auto scrubber and water to remove residual slurry between abrasive disc grits.

CLEAN UP

Use water to clean tools and equipment. Treatment is environmentally friendly and requires no special or hazardous disposal methods.

MAINTENANCE

Routine sweeping, mopping, washing and mechanical scrubbing of floors with neutral pH cleaners / water is recommended.

DO NOT USE acidic or citrus cleaners to maintain the floor.

PROFESSIONAL USE ONLY

Building Service Cleaning Professionals and Industrial Flooring Contractors only. Not for sale or resale to the general public. Must be applied by trained or certified contractors and / or licensed field service specialists.

MANUFACTURED BY

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HEALTH AND SAFETY PRECAUTIONS

Pentra-Sil®(IH) is an aqueous Lithium polysilicate solution. The treatment is 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 if irritation persists. 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®(IH) will bond to most surfaces - immediately wash off over spray with water and mild detergent. CAUTION: Surfaces wet with Pentra-Sil®(IH) may be slippery.

FOR MEDICAL EMERGENCIES ONLY

Call Infotrac (800) 535-5053 Outside USA (352) 323-3500

WARRANTY

LIMITED WARRANTY NOTICE Every reasonable effort is made to apply Convergent Concrete Technologies, LLC. 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 Technologies MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, RESPECTING ITS PRODUCTS, and Convergent Concrete Technologies 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 Technologies Research Director. This information and all further technical advice are based on Convergent Concrete Technologies' present knowledge and experience. However, Convergent Concrete Technologies 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 Concrete Technologies disclaims all WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. CONVERGENT CONCRETE TECHNOLOGIES SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND. Convergent Concrete Technologies 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 products) 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.

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