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Pentra-Sil® 244+

# Impregnator® Plus (HDS)

Color Shielding Hardener / Densifier / Sealer

## Colored Concrete and Micro-Topping Overlayments

For the Polishing and/or High-Speed Burnishing of Integrally Colored Concrete, Dyed and Acid-stained Concrete.

### MANUFACTURED BY

Convergent Concrete Technologies, LLC.  
Specialty Chemical Concrete Treatments  
450 South 1325 West Orem, Utah 84058  
Office: 801-375-2280 • Fax: 801-375-2971  
[www.convergentconcrete.com](http://www.convergentconcrete.com)

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Saint-Gobain Abrasives, Inc.  
Worcester, MA 01606  
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Saint-Gobain Abrasives Canada Inc.  
Hamilton, ON L8L 7Y5  
[www.nortonconstructionproducts.com](http://www.nortonconstructionproducts.com)

### TECHNICAL SERVICE

(254) 918-2310



extraordinarily friendly



lithium treatments

Go Green

Ideal for Grinding and Polishing Process of Integrally Colored, Dyed or Acid-Stained Concrete.

### ADVANTAGES

- Color shielding locks in and preserves color
- Hardens, seals and densifies
- Resists penetration of most oils and chemicals
- Increases reflectivity and deepens shine
- Chloride ion screen and efflorescence blocker
- Protects against staining and water-damage
- Excellent water repellency
- Imparts a semi-gloss reflective surface
- Easy-to-use, water-based formula
- VOC compliant
- Interior / exterior use

### DESCRIPTION

Impregnator® Plus (HDS) is specifically formulated penetrating hardener, densifier and sealer for colored, dyed or acid stained concrete and terrazzo surfaces. With color shielding and efflorescence control, this unique densifier substantially enhances the color depth, increases the abrasion and protects against water and/or other contaminants. Ideal for re-polishing and restoring worn and damaged surfaces. Transform dulled surfaces into vibrant lustrous finishes exhibiting a glossy satin sheen. Impregnator® Plus (HDS) Protective color guard treatment rapidly produces a harder surface that is easy to grind and polish. Its deep penetrating, non-soluble characteristics provide longer life and higher reflectivity, helping reduce ongoing maintenance costs.



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This environmentally friendly treatment reduces alkalinity and efflorescence, and controls dusting. Used while polishing concrete and terrazzo, Impregnator® Plus HDS enhances the process producing more durable results and minimizing damage to abrasives.

When properly installed, Impregnator® Plus (HDS) will not leave surface bloom (whitish film or residual deposits) that are difficult to remove. Only one coat is required (compared to sodium or potassium silicates), application is simplified, and wastewater disposal is minimal. Impregnator® Plus (HDS) will not contribute to alkali-silicate reactivity (ASR).

#### PACKAGING SIZES AVAILABLE

1 Gallon Container, 5 Gallon Pail, 55 Gallon Drum & 275 Gallon Tote.

#### TYPICAL COVERAGE RATES

Concrete ground to 200-400 grit surface profile typically requires an application rate of approximately 450-600 square feet per gallon (13.5-18m<sup>2</sup>/L)

#### GENERAL DIRECTIONS

For grinding and polishing integrally colored concrete, dyed or acid stained surfaces with a terrazzo grinder or concrete planetary grinder prior to and after treatment with diamond grinding and polishing abrasive discs.

#### APPLICATION INSTRUCTIONS

The application rate is determined by the porosity of the surface. Previously densified floors require less material than non-treated. If concrete is damaged you may have to drop down to a 50-60 grit resin or metal disc to open up the floor. Use Impregnator® (HD) for re-densification rather than Impregnator® Plus (HDS).

1. **For integrally colored concrete**, grind the surface to the desired surface profile (200 grit) then apply Impregnator® Plus (HDS) using a high volume, low pressure sprayer. Mix, shake or stir thoroughly before applying. Apply Impregnator® Plus (HDS) to the surface evenly at the rate of approximately 400-500 square 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 Impregnator® Plus (HDS) as needed in order to maintain a uniformly wet surface.
- a. **For dyed concrete**, grind the surface to the desired surface profile (400 grit). Once the surface is ground to the desired level for the dye, apply color (CONSULT COLOR MANUFACTURER FOR DIRECTIONS

AND USE). After color is applied, treat floor with Impregnator® Plus (HDS) using a high volume, low pressure sprayer. Mix, shake or stir thoroughly before applying. Apply Impregnator® Plus (HDS) to the surface, evenly, at the rate of approximately 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 Impregnator® Plus (HDS) as needed in order to maintain a uniformly wet surface. Then grind surface profile with progressively finer resins to desired finish.

- b. **For acid stained concrete**, grind the surface to desired surface profile (400 grit) Once surface is ground to desired grit finish for the acid stain, apply stain (CONSULT COLOR MANUFACTURER FOR DIRECTIONS AND USE). Before beginning the application, the entire surface must be washed and scrubbed with a neutralizing agent after the acid staining is finished. After the floor has been cleaned and neutralized, treat floor with Impregnator® Plus (HDS) using a high volume, low pressure sprayer. Mix, shake or stir thoroughly before applying. Apply Impregnator® Plus (HDS) to the surface, evenly, at the rate of approximately 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 Impregnator® Plus (HDS) as needed in order to maintain a uniformly wet surface. Then grind surface with progressively finer resins to desired finish.
- c. **For extra stain protection**, see Protector® (NL) Advanced High-Gloss Stain and Wear Protection Finish (200-1500 grit finishes) or Protector® (NON-POROUS) Advanced High-Gloss Stain and Wear Protection Finish (3000+ grit finishes) which can be burnished with diamond-impregnated pads which protects the finish and saves steps in the polishing process.
2. **After treatment**, continue grinding and polishing to the intended final surface profile. Clean and remove excess residue with either a scrubber or manually. If wet polishing remove residual slurry between abrasive grits using a squeegee or auto scrubber.

#### CLEAN UP

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



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## 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. Not for sale to or resale to general public. For authorized and trained applicators use only and must be applied by trained or certified contractors and / or licensed field service specialist.

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## HEALTH AND SAFETY PRECAUTIONS

Impregator® Plus (HDS) 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. Impregator® Plus (HDS) will bond to most surfaces - immediately wash off over spray with water and mild detergent. **CAUTION:** Surfaces wet with Impregator® Plus (HDS) 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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