



Pentra®-Protective Stain (PPS/HG) Industrial Penetrating Stain and Surface Hardener

Convergent Group S.A.

Specialty Chemical Concrete
Treatments Commercial

Products Group
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nanoLithium
Patented Technologies by Advan
Nano-Lithium® (NL)
Concrete Treatment
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PRODUCT DESCRIPTION

Pentra®-Protective Stain (PPS/HG) Industrial Penetrating Colored Stain and High-Gloss Surface Hardener is a polishable, penetrating concrete colored stain that gives the benefits of deep, rich hues and chemically reacts within the pore structure, creating a more durable and abrasion-resistant colored substrate. The easy-to-use, water-based product eliminates wait times that you would see with other stains. It can be used on polished concrete, integrally colored concrete, stamped concrete, or as a touch-up for acid stained concrete.

Pentra®-Protective Stain (PPS/HG) is available in 6 standards, in-stock colors.

For enhanced protection we recommend an application of **Pentra®-Finish (HG)**, which will help maintain and preserve reflectivity and color vibrancy, minimizing stains and scratching to prolong the life of the stained surface.

KEY BENEFITS

- Polishable
- Light-Reflective
- Increases resistance to stains, abrasion, and dusting
- Fast-Drying
- Durable
- Reduces maintenance, cleaning costs, and costly repairs. Simply damp mop or machine scrub

CUSTOMER SERVICE:

(+32 60 390 752) to verify the most current versions, visit our website: www.convergent-group.com or scan the code.

**USES**

Pentra®-Protective Stain (PPS/HG) is mainly designed for exterior and interior use and may be used in virtually any interior environment where a colored surface is desired. Such surfaces include floors in retail stores, grocery chains, restaurants, hotels, convention centers, sports and entertainment venues, office buildings, schools, manufacturing facilities, showrooms and transportation terminals.

APPLICATION**Notice: *Very Important***

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.

Step 1.**Substrate Preparation: Concrete/Concrete Block**

For long-term placement create a rough surface profile using diamond grinding discs to a 120 grit resin finish. Clean and neutralize.

The surface must be dry, free of surface contaminants, and in sound condition. Grease and oil should be removed by ASTM D4258-83 approved methods, and release agents should be removed per ASTM D4259-88. Refer to SSPC-SP13/NACE No 6 mechanical or chemical surface preparation methods for preparing concrete to suitable cleanliness for intended service. Surface preparation methods should impart sufficient surface profile for mechanical adhesion to occur. Ensure surface is thoroughly rinsed and dry prior to coating application. Allow a minimum 14 days cure time for new concrete prior to preparation and application (maximum 4% humidity).

Mask areas that should not receive the product's topcoat finish and surface hardener to protect from overspray.

Important: Complete mixing is essential for proper product performance. It is necessary to use a paint-mixing tool mounted in a drill motor or machine agitation (paint shaker) to mix this paint. Mix immediately and thoroughly before applying. Spray first coat and work product into surface with stiff broom or scrubbing pad on a scrubbing machine. Allow first coat to dry before proceeding with the second. Flood coat second application and distribute with a soft bristle broom. Allow material to flow and level. Allow each coat to dry before applying subsequent coats. Allow to dry for approximately one hour and then apply a very thin coat of **Pentra®-Finish (HG)**, using a micro fiber applicator pad or spray.

For a high-gloss, rapid shine development and excellent wear properties as a final finishing step use **Pentra®-Finish (HG)** Advanced High-Gloss, Stain and Wear Protective Treatment over **Pentra®-Protective Stain (PPS/HG)**. For the complete application of **Pentra®-Protective Stain (PPS/HG)** please contact Convergent Group.

ESTIMATED COVERAGE

1 liter per 18–20m², depending on porosity of the substrate and the finish.

CLEAN UP

Use soap and water to clean tools and equipment. Although **Pentra®-Protective Stain (PPS/HG)** 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.

FINAL RESULTS

Extremely durable semi-gloss / matte finish depending on porosity of substrate.

Light pedestrian use is allowable within 30-60 minutes, vehicle traffic after 2 hours. Maximum performance may take up to 14 days to develop, depending on temperature and humidity. Do not allow standing water or puddles of water to be left on the surface. (Immediately wipe up any spills and/or water.)

Make certain the most current versions of **Pentra®-Protective Stain (PPS/HG)** Product Datasheet and SDS are being used. Please read this information prior to use. Call Customer Service (+ 32 60 390 752) to verify the most current versions or visit our www.convergent-group.com.

CONCRETE FINISHES: Pentra®-Protective Stain (PPS/HG) proper application is the responsibility of the user.

Field visits by Convergent Group personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

SAFETY/HEALTH INFORMATION

Pentra®-Protective Stain (PPS/HG) is an aqueous lithium silicate solution that uses proprietary compounds. 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®-Protective Stain (PPS/HG)** will bond to most surfaces—immediately wash off contaminated areas with water and mild detergent.

Caution: Surfaces wet with **Pentra®-Protective Stain (PPS/HG)** may be slippery.

TECHNICAL SERVICE

Customer Care
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WEB

www.convergent-group.com

For chemical/medical emergencies only,

Anti Poison BE +32 70 245 245
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PROPERTIES

Form:	Colored aqueous solution
Total Solids:	approx 23%
Active Ingredients:	100% of total solids
Specific Gravity:	1.09
pH:	11.5
Film:	Yes
Flash Point:	None
V.O.C. Content:	Less than 50 g/L
Freeze point:	0°
Abrasion Resistance:	Excellent
Depth of Surface Penetration:	1-2mm
Shelf Life:	6 months in factory sealed container

PACKAGING

5 L Pail

10 L Pail

20 L Basket

LIMITATIONS

This information contained herein is accurate to the best of our knowledge and belief, and is to be used as a guide to product selection. However, since the conditions of handling, installation, and use are beyond our control, we make no guarantee of results. When in doubt, please test first.

Above grade use only

- Horizontal Masonry and Concrete substrates only
- Protect from freezing
- Agitate/Mix well before use
- Keep dry for at least 24 hours after installation
- Do not allow standing water to dwell on surface for 7 days
- Do not allow traffic until Pentra Protective Stain is allowed to completely dry (generally 30-60 minutes under typical interior conditions)
- **Pentra®-Protective Stain (PPS/HG)** will not bridge or fill cracks and will not salvage honeycombed or structurally unsound surfaces
- Do not allow **Pentra®-Protective Stain (PPS/HG)** to come in contact with glass, fabric, metal or painted surfaces. Immediately wipe contaminated surfaces with a clean, water-saturated cloth, then wipe dry with a second clean cloth.
- Important: **Pentra®-Protective Stain (PPS/HG)**'s fast drying and extremely durable bonding characteristics will permanently bond to a variety of surfaces, making it extremely difficult to remove once cured. We highly recommend masking off and protecting areas that could be affected by splatters, splashes or overspray.
- For subsequent coatings, consult the coating manufacturer for more instructions.

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WARRANTY

LIMITED WARRANTY NOTICE. Every reasonable effort is made to apply 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 GROUP S.A. ("CONVERGENT") MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, RESPECTING ITS PRODUCTS, and CONVERGENT 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 CONVERGENT'S 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 SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND. CONVERGENT 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. CONVERGENT reserves the right to change specifications referred to in this literature at any time, without prior notice. The information contained herein is, to our knowledge, true and accurate. While this material is furnished in good faith, no warranty expressed or implied, of merchantability, completeness, fitness or otherwise is made. This material is offered only for your consideration, investigation and verification, and CONVERGENT disclaims any liability incurred from the use thereof and shall not in any event, be liable for any special, incidental or consequential damages arising from such use. This information is not intended to be all inclusive and the manner and conditions of use and handling of any material may involve other or additional considerations specific to the use or user. Nothing herein should be construed as permission or recommendation to infringe any patent or as to any specific use. No agent, representative or employee of this company is authorized to vary any term of this notice.



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CONCRETE TECHNOLOGIES

Refer to www.convergent-group.com for latest Technical Data Sheet and MSDS.

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