



Pentra® - Protective Coating (PPC) Industrial Topcoat Finish 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
www.nano-lithium.com



PRODUCT DESCRIPTION

Pentra®-Protective Coating (PPC) is a Hybrid Inorganic / Organic Nano-Lithium® Topcoat Finish & Surface Hardener. This high solid, high performance quick drying, breathable coating is designed for use as both an interior and/or exterior industrial application and comes in standard colors – white, gray and green. The unique treatment is extremely low in VOC's (less than 50 grams per liter), environmentally friendly (Green Leaf and can qualify for LEED points) and has a very low polymer odor. The topcoat and surface hardener is an ideal solution for new construction and maintenance projects that require superior protection against abrasion, corrosion, chemical abuse and easy re-coatability. **Pentra®-Protective Coating (PPC)** offers exceptional durability and bond strength is highly resistant to solvents and petroleum-based materials and is easy to repair and maintain-- a versatile alternative to epoxies and polyurethanes.

Pentra®-Protective Coating (PPC) dries to a very hard, colored semi-gloss depending on surface porosity and the amount of product applied. This rapid curing, non-yellowing treatment provides long-lasting surface protection, beauty and easy maintenance. Perfect for protecting concrete floors, ferrous metal, concrete block, aluminum/non-ferrous metal, asphalt, and previously existing coatings.

KEY BENEFITS

- Out-performs epoxies, urethanes and acrylics in durability, adhesion, and maintenance costs
- Tenaciously bonds and chemically reacts forming a durable insoluble bond with the substrate that will not peel, flake, blister, or delaminate
- Creates a stronger, more impenetrable, and better-looking finish (colored semi-gloss) that is dust-proof, resistant to staining (oils and many acids) and deterioration
- Produces a tough impenetrable surface for high abuse areas (chemical exposure, impact, or abrasion) that is also an attractive finish that is easy to maintain
- Rapidly cures into durable finish for facilities that require maximum protection and little-to-no- downtime with excellent re-coatability.
- 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**

Concrete, Concrete Block, Uses, Food Processing Facilities, Material Handling, Equipment, Refineries, Pulp and Paper Mills, Marine/Port Facilities, Chemical Processing Facilities, Offshore Platforms, Water and Wastewater Treatment Facilities.

APPLICATION

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.

Notice Very Important***Step 1.**

Substrate Preparation: Concrete, for long-term placement create a smooth but porous surface profile using diamond grind 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 and release agents should be removed by 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 7–14 days cure time for new concrete prior to preparation and application.

Mask areas that do not receive **Pentra®-Protective Coating (PPC)** and surface hardener to protect from over spray.

Important: Complete mixing is essential for good 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 well and mix immediately before applying.

Use a thin nap roller to apply the **Pentra®-Protective Coating (PPC)**. Apply as many coats as is necessary for proper appearance and coverage. Apply each subsequent coat in a crossing pattern with the previous coat. 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.

For 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 Coating**. For more information on this systems' approach visit our website www.concretetreatments.com

ESTIMATED COVERAGE

1 liter per 7-9.5m² depending on porosity of the substrate and the finish.

CLEAN UP

Use soap and water to clean tools and equipment. Although **Pentra®-Protective Coating (PPC)** is non-toxic and environmentally safe, it is alkaline—use up or dry out extra material and dispose of according to local regulations. Don't pour into sewer systems or storm drains.

FINAL RESULTS

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

Light pedestrian use within 30-60 minutes, vehicle traffic in 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 Coating (PPC)** Product Datasheet and MSDS 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 Coating (PPC)** 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 jobsite.

TECHNICAL SERVICE

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For chemical/medical emergencies only,

Anti Poison BE +32 70 245 245
Outside USA 352-323-3500

SAFETY/HEALTH INFORMATION

Pentra®-Protective Coating (PPC) 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 Coating (PPC)** will bond to most surfaces- immediately wash off over spray with water and mild detergent. Caution: Surfaces wet with Pentra (Topcoat Finish & Surface Hardener) may be slippery.

PROPERTIES

Form:	Colored aqueous solution
Total Solids:	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 to the best of our knowledge and belief, accurate 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 Coating is allowed to completely dry. Generally 30-60 minutes under typical interior conditions
- **Pentra®-Protective Coating (PPC)** will not bridge or fill cracks and will not salvage honeycombed or structurally unsound surfaces.
- DO NOT allow **Pentra®-Protective Coating (PPC)** to come in contact with and 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 Coating (PPC)'s fast drying and extremely durable bonding characteristics will permanently bond to a variety of surfaces and is extremely difficult to remove once cured.) We highly recommend masking off and protecting areas that could be affected by splatters, splashes or over spray.
- 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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