

Pentra - Guard™

(EXT) Exterior Surface Hardening
and Protective Clear Coat

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-Guard™ (EXT) exterior surface hardening and protective clear coat is specifically designed for protecting exterior hardscapes installations from unwanted effects of water and oil penetration, salt efflorescence, and/or dirt and grime build which up can easily distract and diminish their beauty. Pentra-Guard™ (EXT) is a clear "Inorganic/organic Nano-Lithium® micro-film that hardens, seals, and protects against moisture damage to enhance the natural color of exposed aggregate such as paver, bricks, stones and/or decorative exterior concrete such as stamped, colored and acid stained applications.

The unique treatment is extremely low in VOC's (less than 50 grams per liter), environmentally friendly and has a very low polymer/ammonia odor. Whether your surface must tolerate significant foot traffic, abrasion, or chemicals, our advanced, versatile, exterior treatment offers high durability and bond strength; resists staining and dusting and withstands - UV, abrasion, chemical spills and heavy traffic. **Pentra-Guard™ (EXT)** dries to a very hard, glossy "wet-look." This rapid curing, non-yellowing treatment provides long-lasting surface protection, beauty and easy maintenance for a wide range of masonry and concrete surfaces with little-to-no downtime. Perfect for protecting porous concrete, masonry and stone.

KEY BENEFITS:

- Enhances the color of slate, stamped concrete, stone, and brick
- Provides premium "wet look" finish to a variety of decorative masonry surfaces
- Combines the durable protection of a penetrating densifier with the attractive finish of a high performance glossy clear coating
- Creates a stronger, more impenetrable, and better-looking finish (satin-glossy) that is dust-proof, resistant to staining (oils and many acids) and deterioration.
- High Performance treatment produces a tough coating for high abuse areas (chemical exposure, impact, or abrasion) that is also an attractive finish that is easy to maintain.
- Rapidly cures into a durable finish for facilities that require maximum protection and little-to-no-downtime
- Tenaciously bonds and reacts with concrete forming a durable insoluble bond
- Forms a protective "micro surface layer" that is breathable, dense and abrasion resistant that will not peel or flake
- 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**

Paver, Bricks, Precast Brick, Natural stones, Stone veneers, Decorative concrete, colored, Stamped, Exposed, Driveways, Decks, Foyers, Pedestrian walkways, Monuments, Cast-in-place concrete. Stadiums, Parking garages, loading docks and exterior buildings.

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*

*1 Use a micro fiber pad to disperse material on smooth surfaces. On rough surfaces, spraying is sufficient.

*2 (Always test each concrete surface for suitability and desired results. Let surface dry before inspection and approval of desired application).

STEP 1.

Cleaning: **Pentra-Guard™ (EXT)** may be applied to existing, masonry and/or stone substrates of any age. Thoroughly clean all surfaces. Mechanically remove any surface laitance and patch or fix cracks and damaged areas. Remove all membrane forming curing compounds, sealers, oil, grease, dirt, dust, drywall residue and other containments. Do not clean/etch the surface with an acidic solution because it requires thorough rinsing using a neutral pH cleaner to effectively neutralize the surface (if not properly neutralized the pH may cause whiting.) Avoid using cleaners with citrus (de-limonene) or Butyl compounds.

STEP 2.

- Mix, Shake or Stir thoroughly before applying.
- Apply **Pentra-Guard™ (EXT)** using suitable sprayer. Immediately distribute any pools using a a micro-fiber pad on smooth surfaces or a soft broom on rough surfaces. Two applications may be necessary to achieve the desired results. Allow 60 minutes before reapplying next coat.

ESTIMATED COVERAGE

1 liter per 3.5 to 7 m² on rough or broom finished surfaces. 1 liter per 18,5 to 23m² on smooth surfaces. ***Coverage rate will vary with concrete finish and environment.**

CLEAN UP

Use soap and water to clean tools and equipment. Although **Pentra-Guard™ (EXT)** 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.

TECHNICAL SERVICE

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For chemical/medical emergencies only,

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FINAL RESULTS

- 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. In cool or humid conditions, do not allow standing water to dwell on the surface until it is completely cured.
- Make certain the most current versions of **Pentra-Guard™ (EXT)** Product Data sheet 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 website: www.convergent-group.com
- 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
- Floor is ready for traffic and use when dry. Typical drying time is 1-2 hours
- For optimal hardening and performance results we recommend that you do not sand or polish the surface. Treated surfaces will exhibit a glossy sheen and reduced water absorption. Maximum strength and stain resistance will develop over 7 days. Sanding or polishing will only wear down the protective surface and is not recommended for **Pentra-Guard™ (EXT)** .

SAFETY/HEALTH INFORMATION

KEEP OUT OF REACH OF CHILDREN. Dispose of waste material in accordance with federal, state and local requirements. Although the material is non-toxic and non-hazardous, the treatment is alkaline and may cause eye and skin irritation. Wear eye protection and gloves. If splashed in eyes, rinse with water and consult a doctor if irritation persists. Wash promptly from skin. Do not take internally—if swallowed, do not induce vomiting—drink water and call a physician. Avoid contact with eyes. Protective clothing is recommended. Surfaces may be slippery when wet with product. Additional precautions, safety information and first aid treatments are contained in the Material Safety Data Sheet (MSDS).

PROPERTIES

Form:	Milky white, aqueous solution
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:	2-8mm
Shelf Life:	6 months in factory sealed container

PACKAGING

25 L Plastic Pail	28 kg
50 L Mini Drum	58 kg
200 L Drum	226 kg
1000 L Tote (IBC)	1150 kg

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.
- Protect from freezing.
- Agitate/Mix well before use.
- In cool, humid conditions, curing will take longer. Protect from standing water until cured.
- Do not allow traffic until **Pentra-Guard™ (EXT)** is allowed to completely dry, generally 30-60 minutes under typical conditions.
- Do Not allow **Pentra-Guard™ (EXT)** Coating to come in contact with any 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-Guard™ (EXT)** will quickly bond to most surfaces and is very difficult to remove--we recommend protecting adjacent areas from over spray and splatters.
- Subsequent coating with paint or other material will not adhere well and is not recommended.

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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.



CONVERGENT GROUP S.A.

The Concrete Technologies

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

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