



**CONVERGENT GROUP S.A.**

The Concrete Technologies

# Pentra-Color™ Hard (PCH) Industrial Penetrating Reactive Color 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](http://www.nano-lithium.com)



Convergent "Flooring Division's products  
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## PRODUCT DESCRIPTION

**Pentra-Color™ Hard (PCH)** penetrates and chemically bonds to the concrete, offering vibrant hues which can be used alone or in combinations for an unlimited range of shades, tints and artistic effects. This specially formulated nanotechnology using crosslinking resins and UV-stable pigments decorates, dustproofs and improves the abrasion-resistance of concrete floors and exterior pavements. Available in six standard colors.

Great for trowel-finished, ground or textured concrete of any age. Easy application offers enhanced durability, quality and fast installation. This environmentally friendly water-based material reduces waste and eliminates hazards associated with corrosive acid stains or highly flammable solvent-reduced dyes.

May be used over integrally colored concrete. Shake before use. Low-odor. Suitable for use in occupied spaces

## KEY BENEFITS

- Out-performs epoxies, urethanes and acrylics in durability, adhesion and maintenance costs
- 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 an impenetrable surface, recommended for light traffic
- Yields an attractive finish that is easy to maintain
- Easy application offers enhanced durability, quality and fast installation

**CUSTOMER SERVICE:**

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

**USES**

Use for light traffic areas

**Commercial:** grocery stores, office building, retail, banks, malls, warehouses, distribution centers

**Institutional:** churches, hospitals, universities, schools, museums, theme & leisure: resorts, hotels, casinos, restaurants, theaters

**Residential:** concrete floors and garages

**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.**

**Precautions:** surface must be perfectly clean and free of all foreign materials, such as bond breakers, curing agents, form release oils, dust, construction laitance, drywall residue, etc. Do not use citrus or acidic cleaners. If acid dyes or cleaners have been used, neutralize the surface using an alkali cleaner (TSP, Tide laundry detergent, etc.).

**SURFACE PREPARATION:**

- On a smooth concrete with a compression of 25/30 it will be necessary to open the pores with metal diamond disk (Grit between 60-120). The opening of the pores of the concrete is necessary for the product to adequately bond with the surface.
- Use a vacuum cleaner and an industrial cleaning machine to remove all dust from the surface. Clean several times (it can be 4-6 times).
- Let it dry and only apply the PCH if the surface contains less than 4% humidity.
- If concrete is not hard enough, we recommend applying a coat of PS (H), letting it dry and grinding maximum to 120 metal bond (got to point 1).

**APPLICATION INSTRUCTION:**

Before starting, it is very important to mix the color for a minimum of 15 minutes.

1. Apply the first coat with a roll, spray or brush, or with a paint gun (low pressure) in a proportion of 1L to 12-14 SqM<sup>2</sup>.
2. At a normal temperature (18°C) let it dry at least 30 minutes (depending of the weather).
3. Apply a second coat.
4. Let it dry for 30 minutes minimum. For light color we recommend at least 3 coats. Note: the amount of coats always depends on the desired result and the initial color of the concrete.
5. After the drying time, burnish (high speed burnisher) the surface with a diamond pad (minimum 3000 grit) to avoid small dust or paint particles and to increase shine.
6. To finish, apply 2 coats of **Pentra-Finish® (HG)** and let it dry.
7. Polish the surface between each coat of **Pentra-Finish® (HG)** with a diamond pad (3000/8000/11000 resin grit).
8. After burnishing the last coat of **Pentra-Finish® (HG)**, apply 1 or 2 coats of LisoTop OWR to give the surface increased resistance to stains, oil, grease, etc. Burnish each coat with a white pad.
9. Do not leave any stain, water, or liquid of any kind on the floor during the first WEEK after application.
10. Please look to our maintenance program and educate the maintenance company.

## ESTIMATED COVERAGE

1 liter per 12-14m<sup>2</sup>, depending on porosity of the substrate and the finish.

## CLEAN UP

Use soap and water to clean tools and equipment. Although **Pentra-Color™ Hard (PCH)** 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.

## MAINTENANCE

Use extremely durable semi-gloss / matte finish, depending on porosity of substrate.

Light pedestrian use 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.)

## FINAL RESULTS

Make certain the most current versions of **Pentra-Color™ Hard (PCH)** 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](http://www.convergent-group.com).

**CONCRETE FINISHES: Pentra-Color™ Hard (PCH)** 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

KEEP OUT OF 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-Color™ Hard (PCH)** will bond to most surfaces—immediately wash off tainted surface and spray with water and mild detergent. Caution: Surfaces wet with **Pentra-Color™ Hard (PCH)** may be slippery.

## PROPERTIES

Form:	Colored aqueous solution
Total Solids:	Between 33% and 37% (may vary according to the color)
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

25 L Plastic Mini Drum  
50 L Mini Drum  
200 L Drum  
1000 L Tote (IBC)

## LIMITATIONS

The 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 Coating is allowed to completely dry (generally 30-60 minutes under typical interior conditions)
- **Pentra-Color™ Hard (PCH)** will not bridge or fill cracks and will not salvage honeycombed or structurally unsound surfaces.
- DO NOT allow **Pentra-Color™ Hard (PCH)** 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-Color™ Hard (PCH)**'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 overspray.
- For subsequent coatings, consult the coating manufacturer for more instructions.

**TECHNICAL SERVICE**

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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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Refer to [www.convergent-group.com](http://www.convergent-group.com) for latest Technical Data Sheet and MSDS.

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**UNIQUE STRENGTHS, UNMATCHED PERFORMANCE.™**

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