



Convergent Concrete Technologies, LLC.

Specialty Chemical Concrete Treatments Commercial Products Group

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(SiRE)<sup>®</sup> Li Patented Technologies by Advan Silicon Reactive Lithium

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## **PRODUCT DESCRIPTION**

Pentra-Finish<sup>™</sup>(HG) is a patented, high-gloss, stain and wear resistant finish for improving the sheen, hardness and chemical resistance of natural and cast stone, terrazzo, masonry, and other cement-based surfaces. This waterbased, lithium fortified chemical polish quickly dries to a clear, extremely hard, micro-coating that tenaciously bonds and reacts with the substrate forming an insoluble bond with the surface. Formulated using reactive silicon hybrid polymer technology (SiRE)<sup>™</sup> for extreme gloss, rapid shine development and excellent wear properties, this novel treatment eliminates the need for floor waxes, liquid polishes and conventional resin based coatings. Best results and coverage will be obtained by densifying the surface with Pentra-Sil<sup>™</sup>(NL), or Pentra-Sil<sup>™</sup> 244+ before applying Pentra-Finish<sup>™</sup>(HG).

Because of its unique chemistry, Pentra-Finish™(HG) will not lift or peel from the surface. Periodic recoating requires no stripping as the material doesn't build up. Pentra-Finish™(HG) is non-toxic, non-hazardous, and VOC compliant in all areas of the world with less than 50 grams per liter VOC content. The easy-to-use finish is tough, mark-resistant, fast drying and non-streaking. The treatment is used in conjunction with a highspeed burnisher on non-porous stone, masonry and cement-cement based building materials to provide superior clarity and improved resistance against water and water-borne stains from accidental spills, oils, dirt and grime.

Ideal for ground and polished concrete surfaces as well as integrally colored, dyed and/or stained concrete. Pentra-Finish™(HG) enhances the color intensity of natural and cast stone, and integrally colored, dyed, or acid stained decorative concrete. It also reduces efflorescence and mineral deposits making treated surfaces shinier and more attractive.

## **KEY BENEFITS:**

• Delivers rapid shine development with increased abrasion, stain resistance, and gloss retention.

#### **CUSTOMER SERVICE:**

(1-866-375-2280) to verify the most current versions or visit our website: www.convergentconcrete.com/ product/productpentrasil.html

- Keeps dirt and contaminants from penetrating, making cleaning faster, more effective and more economical.
- Ready to use in a few hours--rapidly cures into a durable finish for facilities that require maximum protection and little-to-no downtime.
- Forms a protective "micro surface layer" that is breathable, dense, abrasion resistant, and that will not peel or flake.
- Reduces maintenance, cleaning costs and costly repairs. Simply damp mop or machine scrub.
- No build up--periodic re-application is simple and requires no stripping.
- Prolongs shine of polished concrete surfaces.
- Safe for food contact per SGS Testing (21 CFR 175.300)

#### USES

# INTERIOR FLOORING NON-POROUS GROUND, HONED, POLISHED OR BURNISHED CONCRETE SURFACES.

**Commercial:** Grocery Stores, Office Building, Retail, Banks, Malls, Warehouses, Distribution Centers

Industrial: Food Processing Facilities, Cold Storage / Freezers, Beverage and Manufacturing Plants

Institutional: Churches, Hospitals, Universities, Schools, Museums Theme & Leisure: Resorts, Hotels, Casinos, Restaurants, Theaters Governmental: Federal & State Buildings, Prisons Residential: Concrete floors and Garages

## APPLICATION

Surface Preparation: Be sure surface to be treated is clean and dry. Pentra-Finish™(HG) will not hide stains. Aggressive scrubbing with a neutral to alkali cleaner is recommended. Avoid citrus or butyl compounds when cleaning. Pentra-Finish™(HG) will not bond to acidic surfaces so if applying over an acid stain, neutralize thoroughly first. Mixing: Lightly stir before each use. Do not over mix or bubbles and/or foaming can occur and make uniform application more difficult.

**Placement: IMPORTANT:** Do not over apply. Very thin coats are best. Apply Pentra-Finish<sup>™</sup>(HG) using a micro fiber pad that has been pre-dampened with water. Using a pump up sprayer or HVLP sprayer, spray lightly over the top of the area to be treated, and then spread material thinly and evenly using the micro fiber pad over the rest of the area. For best results, limit the size of the area being treated at any one time to a 20 ft. x 20ft. (6.1m x 6.1m) section. Spread at a rate of 1,500-3000 sq. ft./gal. (37 -74 sq m/L) depending on porosity of the surface. Spray another line of material when the applicator pad begins to drag. Do not work material into the surface—spread it and leave it. Allow each application to dry at least 30-60 minutes between coats or before using.

Second applications will improve sheen and stain protection. Buffing with a highspeed burnisher (1500-2100 rpm) and a hog's hair pad between coats is recommended and will speed curing and improve sheen. Second coats will usually take no more than 3000-4000 sq. ft./gal. (74 – 98 sq m/L) followed by a burnish. Do not cover treated surfaces for at least 1 week as protective coverings may slow curing and cause some whiting by trapping moisture.

## ESTIMATED COVERAGE

**1st coat:** 1,500-3000 sq. ft./gal. (37 -74 sq m/L) **2nd and subsequent coats:** 3000-4000 sq. ft./gal. (74 – 98 sq m/L)

Texture and absorption of surface will determine final coverage rates. Porous concrete surfaces may require additional material.

**Clean Up**—Wash equipment with soap and water. Although Pentra-Finish™(HG) is non-toxic and environmentally friendly, it is alkali. Use the material completely, or dry it out and dispose of it properly per local regulations. Do not pour down sanitary sewers or into storm drains.

## MAINTENANCE

Routine sweeping, mopping, washing and mechanical scrubbing of floors with water and neutral pH cleaners (if necessary) is recommended. Water only is sufficient for most environments. DO NOT USE cleaners that are acidic or that have citrus (d-Limonene) or Butyl compounds. Although Pentra-Finish™(HG) is chemically resistant and helps reduce staining, some compounds, especially acids, may damage the surface, and therefore it may not be suitable for some applications. If unsure, check with a Convergent technical representative. Regular maintenance and cleaning will help prolong surface shine. Wipe up any chemical spills as soon as possible.

### 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

Active Ingredients:	100% of total solids
Specific Gravity:	1.09
рН	11.5
VOC Content	<50g/L
Flash Point	N/A
Freeze Point	32°F (0°C)
Shelf Life	1 Year in unopened factory sealed container

### V.O.C.

Less than 50 g/L. Compliant with all US VOC regulations including Federal EPA, OTC, LADCO, SCAQMD & CARB.

## TECHNICAL SERVICE CUSTOMER CARE:

Toll Free 866-375-2280 or 801 375 2280

#### EMAIL:

technicalservice@convergent concrete.com

#### WEB:

www.convergentconcrete.com

## For chemical/medical emergencies only,

call Infotrac (800) 535-5053 Outside USA (352) 323-3500

## PACKAGING

1 Gal Plastic Jug 5 Gal Plastic Pail 55 Gal Drum 275 Gal tote (IBC)

## LIMITATIONS

#### FOR PROFESSIONAL USE ONLY

Use on interior surfaces only. Protect from freezing. Agitate before use. Do not allow standing water to dwell on surface for 7 days following application. Do not allow traffic on surface until it is dry—typically 30-60 minutes. Pentra-Finish™(Li) will not bridge or fill cracks, and will not salvage honeycombed or structurally unsound surfaces. Pentra-Finish™(HG) quickly bonds to most surfaces including metal, wood, glass, and paint. Protect adjacent surfaces. Remove overspray quickly with a damp cloth and soap. Always do a test patch before beginning the job to verify coverage, appearance, and surface material variations

#### WARRANTY

LIMITED WARRANTY NOTICE Every reasonable effort is made to apply Convergent Concrete 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 MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, RESPECTING ITS PRODUCTS, and Convergent Concrete 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 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 CONCRETE SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL. INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND. Convergent Concrete 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 gualified 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.

Refer to www.convergentconcrete.com for latest Technical Data Sheet and MSDS. Convergent Concrete Technologies, LLC. ~ Specialty Chemical Concrete Treatments • 115 North 1380 West • Orem, Utah 84057 • 801.375.2280

## UNIQUE STRENGHTS, UNMATCHED PERFORMANCE.

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