

# Pentra®-Sil

## (PCF)

## Liquid Pore and Micro-Crack Filler for Concrete Grinding and Polishing

Convergent Group S.A.

Specialty Chemical Concrete  
Treatments Commercial

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Patented Technologies by Advan  
Nano-Lithium® (NL)  
Concrete Treatment  
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### PRODUCT DESCRIPTION

**Pentra®-Sil (PCF)** Liquid Pore and Micro-Crack Filler for concrete grinding and polishing mixes with the dust created during concrete grinding.

The reactive treatment quickly cures into a durable smooth surface that readily accepts colored stains, dyes and hardeners, and automatically fills pinholes, small air voids, micro-cracks and other imperfections in the concrete surface.

### KEY BENEFITS

- Fills imperfections during grinding operations
- Accepts color-stains and hardeners more uniformly
- Creates a polished surface that is easier to maintain
- Easy-to-use, low odor, no rinsing required
- Penetrates—no film to lift or peel off
- VOC compliant, can contribute to LEED points

### USES

#### NEW AND EXISTING CONCRETE / INTERIOR EXTERIOR

Parking garages, fire stations, sidewalks, loading docks, aircraft hangars, automotive dealerships, shipping terminals, vehicle maintenance areas, office buildings, health care facilities, cafeterias/restaurants, correctional institutions, retail & shopping centers, schools, stadiums, veterinary clinics, common areas, aisles/corridors, clean rooms, kitchens, laboratories, lobbies, mechanical rooms, mezzanines, restrooms & showers, manufacturing, warehousing, storage, distribution centers, food processing plants, textile mills, wastewater treatment plants, pharmaceutical clinics, electronic facilities, cold storage/freezers, beverage bottling, chemical processing.

## 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.

**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.**

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.

**Pentra®-Sil (PCF)** Liquid Pore and Micro-Crack Filler should be applied close to or during the final stage of metal grinding operations. Always test to determine best practices for job site conditions.

1. If the grinder is connected to a vacuum hose, disconnect it. Disconnecting the vacuum prior to application helps get dust into the product for a smooth, thick filler.
2. Apply **Pentra®-Sil (PCF)** by spraying, or pour-and-spread with a soft push broom, on the floor immediately in the grinder's path. Coat floor up to 10 feet or less in front of the grinder. Saturate the floor, but do not create puddles.
3. Grind the wet floor until consistency become medium thick. Then use a squeegee to achieve even coverage on the surface. Ensure the grinder reaches treated areas before solution dries.
4. Let the floor dry 2–12 hours for maximum curing.
5. Reconnect vacuum hose (if needed) and continue grinding and polishing.

**ESTIMATED COVERAGE**

1 liter per 5 m<sup>2</sup> to 16 m<sup>2</sup>. Coverage will vary with porosity and job site conditions.

Make certain the most current version of the **Pentra®-Sil (PCF)** 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](http://www.convergent-group.com) where you can also find additional tips, guidelines and specifications. 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 job site.

**CLEAN UP**

Use soap and water to clean tools and equipment. Although **Pentra®-Sil (PCF)** is nontoxic 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**

Routine sweeping, mopping, washing and mechanical scrubbing of floors with neutral pH cleaners/water is recommended. DO NOT USE acidic or citrus cleaners to maintain the floor.

**FINAL RESULTS**

Typical drying time is 1-2 hours. Floors are ready for traffic and use when dry. A light lithium residue may form on the surface after the surface is dry. This is excess **Pentra®-Sil (PCF)** that was not absorbed and can be removed with a stiff broom, power sweeper or floor machine (if required).

## SAFETY/HEALTH INFORMATION

**Pentra®-Sil (PCF)** is an aqueous Silicon Lithium Polysilicate (SiRE)<sup>™</sup> 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®-Sil (PCF)** will etch glass and painted surfaces. Immediately wash off with water all overspray from glass and painted surfaces. CAUTION: Surfaces wet with **Pentra®-Sil (PCF)** may be slippery.

## PROPERTIES

Active Ingredients:	100% of total solids
Specific Gravity:	1.16 approx.
pH:	11.8
V.O.C. Content:	50<gms/L
Flash Point:	N
Freeze point:	0°
Shelf Life:	1 year in unopened factory sealed container

## PACKAGING

20 L Basket  
200 L Drum  
600 L Tote  
1000 L Tote

## LIMITATIONS

**Pentra®-Sil (PCF)** will not bridge or fill cracks more than 2-3mm and will not salvage honeycombed or structurally unsound surfaces. Not suitable for asphalt, non-cement surfaces or painted surfaces. (Paint and coatings may be applied over the top of **Pentra®-Sil (PCF)**—follow paint or coating manufacturer's instructions).

**TECHNICAL SERVICE**

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**WARRANTY**

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CONCRETE TECHNOLOGIES

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

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