

PENTRA-SIL® (PCF)



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

PRODUCT DESCRIPTION

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

The reactive treatment quickly cures into a durable smooth surface that readily accepts coloured 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 colour-stains and hardeners more uniformly
- Creates a polished surface that is easier to maintain
- Easy-to-use, low odour, 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, healthcare facilities, cafeterias/restaurants, correctional institutions, retail and shopping centres, schools, stadiums veterinary clinics, common areas, aisles/corridors, clean rooms, kitchens, laboratories, lobbies, mechanical rooms, mezzanines, restrooms and showers, manufacturing, warehousing, storage, distribution centres, food processing plants, textile mills, wastewater treatment plants, pharmaceutical clinics, electronic facilities, cold storage/freezers, beverage bottling, chemical processing.

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.

Pentra-Sil® (PCF) Liquid Pore and Micro-Crack Filler should be applied close to or during the final



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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 becomes 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

1L per 5m² to 16m². 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 where you can 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 ad 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)[™] solution that uses proprietary compounds. The treatment is alkaline and may cause eye and skin irritation. 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,



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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
VOC Content	50<gms/L
Flash Point	N/A
Freeze Point	0°
Shelf Life	1 Year in unopened factory sealed container

PACKAGING

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

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).

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) 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 the 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 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 terms of this notice.



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