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# ARDEX PC 50<sup>TM</sup>

## Lithium Hardener Densifier for Standard Concrete

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For use in the grinding and polishing of ARDEX Polished  
Concrete Systems<sup>TM</sup>

Interior use only



nanoLithium  
(Patented) Nano Lithium<sup>®</sup> (NL)  
Concrete Floor Treatments

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# ARDEX PC 50™

## Lithium Hardener Densifier for Standard Concrete

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### Product Capabilities

ARDEX PC 50™ Lithium Densifier is an economical, cost-effective chemical treatment used to enhance the grinding and polishing process (metal and resin-bonded abrasives) of architectural polished concrete surfaces. ARDEX PC 50 rapidly produces a harder, denser surface that is easily profiled and polished. Its deep penetrating, non-soluble properties provide longer life and higher reflectivity. Ultimately, this results in superior durability, exceptional shine retention and reduced floor maintenance costs. ARDEX PC 50 is crucial to the installation of the ARDEX Polished Concrete Systems™ when polishing, or re-polishing and restoring worn or damaged surfaces.

### Application Instructions

1. Grind the concrete to remove all foreign material from the concrete surface and then bring the surface profile to a 100 - 200 grit finish. This step opens up the surface ensuring better penetration.
2. Mix, shake or stir thoroughly before applying.
3. Depending on size of work area, product can be applied with a pump up sprayer or a high volume, low-pressure sprayer (HVLP). Apply ARDEX PC 50 to the surface evenly at the rate of approximately 400-500 sq. ft. per gallon. Lightly broom out any puddles immediately after application. Allow material to remain on the surface for 20-30 minutes. DO NOT LET ANY AREA DRY OUT during this time. Add more ARDEX PC 50 as needed in order to maintain a uniformly wet surface.
4. After material has penetrated and is no longer glistening on the surface, continue grinding and polishing to the intended final surface profile and desired finish. If using a wet polishing method, or on integrally colored concrete, we recommend using an auto scrubber and water to remove residual slurry between abrasive disc grits. Recommended: For enhanced gloss, stain and wear protection use ARDEX PC FINISH™ Stain and Wear Protection Treatment.

### Typical Coverage Rates

400 - 500 sq. ft. per gallon (12-15 m<sup>2</sup>/L). (Note: Coverage or treatment yield will vary with concrete quality, porosity, finish and environment. Previously densified floors require less material than non-treated floors.)

### Clean Up and Disposal

Use soap and water to clean tools and equipment. Although treatment is non-hazardous and environmentally friendly, it is alkaline. Do not dispose of in storm drains or sewers. Use the material up or dry it out and dispose of per local regulations.

### Maintenance

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

### Storage Instructions

KEEP OUT OF THE REACH OF CHILDREN. For industrial and institutional use only. Keep closed when not in use. PROTECT FROM FREEZING. DO NOT HEAT. STORE BETWEEN 36°F (2°C) and 100°F (38°C). Do not apply when air, material and surface temperatures are expected to fall below 40°F (4°C) within four hours of completed application. DO NOT DILUTE WITH WATER OR OTHER COMPOUNDS. SHELF LIFE: 1 year in unopened container. (See ARDEX Polished Concrete Systems™ specification sections regarding applications, steps and procedures for applying ARDEX PC 50 product. Refer to ARDEX PC 50 MSDS for complete safety information.)

### PROFESSIONAL USE ONLY

Must be applied by ARDEX trained contractors or installers. Please contact ARDEX for a complete list of installers.

### Health and Safety Precautions

Although this product is non-toxic and non-hazardous, it is alkaline. KEEP OUT OF REACH OF CHILDREN. Do not ingest. Keep container closed tightly when not in use. 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. ARDEX PC 50 will bond to most surfaces immediately, so wash off over spray with water and mild detergent.

△ **CAUTION:** Surfaces wet with ARDEX PC 50 may be slippery.

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|----------------------|----------|
| Protection.....      | C        |
| Health.....          | 1        |
| Irritant .....       | △        |
| Flammability.....    | 0        |
| V.O.C. Content ..... | < 50 g/L |
| Reactivity.....      | 0        |

### Warranty

ARDEX Engineered Cements standard limited warranty applies.

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