

Technical Data Sheet

CP-1007

Penetrating Concrete Sealer

Product Description and Installation Information

PRODUCT NAME

CP-1007

Hardener, densifier, dustproofer, soluble chloride reducer

MANUFACTURER

Chemical Products Industries, Inc.

7649 SW 34th St., Oklahoma City, Ok 73179

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PRODUCT DESCRIPTION

CP-1007 is a non-flammable, non-toxic, non-acid, penetrating silicate sealer that strengthens and internally waterproofs cementitious materials. CP-1007 is water-based and environmentally friendly.

Unlike membrane forming sealers which can be worn away in high traffic areas, leaving unprotected concrete unsightly and susceptible to chemical attack, CP-1007 penetrates into the surface and cannot be scratched or peeled off.

When applied to concrete or masonry, CP-1007 reacts with calcium hydroxide and reduces porosity and permeability of the concrete matrix. This serves to increase the hardness and chemical resistance which, in turn, increases the service life of the surface.

In conditions where salt air and humidity attack the concrete, causing oxidation of the reinforcing steel, CP-1007 has proved to halt such corrosion activity. When the CP-1007 is applied to concrete exposed to such conditions, exfoliation or expulsion of the chlorides takes place. The CP-1007 reacts with free alkali in the concrete forming a silica hydrogel that fills the capillaries within the matrix. This hydrogel waterproofs and seals the surface after all materials harmful to the concrete are removed. This process could take up to thirty days or longer, depending on the chloride and acidic residual concentration within the capillaries.

USAGE

CP-1007 has been used to treat concrete walls, storage tanks, and building blocks. Roadways, driveways, runways, warehouse floors, industrial plants, food processing plants and hospitals.

CP-1007 also reduces vapor emissions for application of surface coatings such as polyurea, epoxy, urethane, as well as carpet, floor tile, sheet vinyl and hardwood flooring materials.

Benefits of this product are:

- Increases useful life of concrete structures
- Low-cost, easy to handle and apply
- Resists many acids, oils, greases and salts
- Reduces porosity and permeability and increases hardness which results in better wear resistance
- Prevents rebar corrosion
- Ideal for enclosed food preparation areas where odors and toxic fumes can be absorbed by food.
- Purges soluble chlorides and prevents reentry
- Does not effloresce like traditional silicate sealers
- Contains a proprietary penetrating agent
- Does not alter bondability of concrete

TECHNICAL DATA

Color	clear
Odor	none
Active substance	potassium silicate
Carrier	water
pH	11

COVERAGE

Rough Slab Finish:
50 – 100 sq ft/gal

Dense and Smooth Finish
100 – 150 sq ft/gal

Follow recommended coverage rate guidelines.

LIMITATIONS

Do not dilute or alter. Application temperature range 35° - 120°F (2° - 49°C). Protect from freezing. However, may be reused after thawing and agitation

Avoid contact with glass, aluminum, ceramics, glazed tile and wood.

Carbonated concrete should be abraded prior to application.

INSTALLATION

New Concrete:

Apply CP-1007 undiluted to finished, damp concrete surface with low pressure sprayer after all surface water has evaporated and the surface will not be damaged or blemished by the application procedure.

Keep the treated surface area wet with CP-1007 for thirty (30) minutes by spraying additional product and/or brooming excess materia. Do not allow dry spots to occur. Prevent drying of surface for twenty (20)-thirty (30) minutes.

As CP-1007 begins to penetrate and react, mist the surface lightly with clean water and brush, broom or scrub with non-aggressive brush or pad into surface to aid penetration/reaction.

After thrity (30) minutes, depending on temperature and humidity, CP-1007 will begin to gel. Keep all treated surfaces moist, and continue brushing/scrubbing action for 5-15 minutes. Note: Surface can be slippery.

Flush the surface with water and squeegee to remove excess material and all impurities present on the surface. Rinse with generous amounts of water to enhance product performance. Finish with a damp mop. CP-1007 is environmantaly safe and may be flushed directly into drains.

DO NOT allow CP-1007 residue to dry on the surface. Any product allowed to dry on the surface may cause white residue that can be difficult to remove.

Existing Concrete:

For best results, apply to concrete cured seven (7) days or longer.

Assure surface is clean and free of contaminants (waxes, curing membrane, oil, etc). The surface must be thoroughly cleaned and swept with a broom to remove any loose dirt. It should then be wetted and scrubbed with Terazyme GP cleaner/degreaser or other cleaning compound. The abrasive action removes the film of consolidated dirt and exposes the true wearing surface. The surface should then be scrubbed, again, with soapy water and flushed with fresh water. To get the best penetration the floor should be allowed to dry thoroughly for a minimum of 24 hours, depending on atmospheric humidity.

The surface being treated should be pre-dampened prior to application of the sealer. Apply undiluted CP-1007 to saturation level by sprayer, broom, squeegee or floor scrubber.

Keep the treated surface area wet with product for thirty (30) minutes by spraying additional product and/or brooming excess material from low areas.

Do not allow dry spots to occur. Prevent any drying of surface for twenty (20) to thirty (30) minutes. Use brooms or floor scrubber with non-aggressive pad or brushes to aid in penetration.

After twenty (20) to thirty (30) minutes, depending on temperature and humidity, CP-1007 will begin to gel. Keep all treated surfaces moist, and continue brushing/scrubbing action for 5-15 minutes. Note: Surface can be slippery.

Flush the surface with water and squeegee the surface to remove excess material and all impurities present on the surface. Rinse with generous amounts of water to enhance product performance.

Finish with a damp mop. CP-1007 is environmantaly safe and may be flushed directly into drains.

DO NOT allow CP-1007 residue to dry on the surface. Any product allowed to dry on the surface may cause white residue that can be difficult to remove.

Drying

CP-1007 penetrates in approximately thirty (30) –sixty (60) minutes dependiing on temperature and humidity. Allow each application to penetrate thoroughly before proceeding with additional applications.

Allow twenty four hours afte application before opening to wheeled traffic.

Following drying, gloss development can be enhanced by buffing and or additional floor scrubbing.

Properly treated concrete may be painted without any difficulty. However there should be no CP-1007 residue on the surface prior to painting. Washing with hot water will remove the alkalinity that may be due to the silicate. An alkali-resistant paint should be used.

CLEANUP

Rinse equipment with cold water. If CP-1007 is accidentally sprayed on glass, aluminum, ceramics, glazed tiled etc. rinse with clear water immediately.

Precautions: Please refer to the Material Safety Data Sheet for more information.

AVAILABILITY

CP-1007 is available in Five and Fifty-Five Gallon containers to approved applicators/distributors throughout the United States. Contact Chemical Products Industries, Inc. at 800-624-4356 for a sales representative in your area.

TECHNICAL SERVICE

Technical service engineers and chemists are available to answer questions on product performance, application methods and chemical composition.

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