



SURECOAT
SYSTEMS

Deep Penetrating Densifying Sealers

SS-1007 and SS-1007-L – Sealer, Densifier, Hardener, Chloride Reducer

BENEFITS

- **Blocks and reduces vapor emissions through concrete but leaves concrete breathable.**
- **Purges soluble chlorides and prevents re-entry. Cures and chemically hardens in one application.**
- **Penetration depends on density of concrete and masonry substrate. Does not alter bondability.**
- **Cures, seals, hardens and dust-proofs freshly placed concrete. Economical. No flammable solvents.**

DESCRIPTION:

Deep Penetrating Densifying Sealers (DPDS) is a non-flammable, non-toxic, non-acid sealer that internally strengthens and waterproofs cementitious materials. DPDS reduces vapor emissions for application of surface coatings such as polyurea, epoxy, urethane, carpet, and floor tile, sheet vinyl and hardwood flooring materials. It does not alter the bonding of surface coatings. DPDS also reduces radon gas penetration through concrete.

DPDS reacts with free calcium hydroxide in the concrete forming a silica hydrogel that fills the capillaries within the matrix. This hydrogel waterproofs and seals the substrate after all materials harmful to the concrete are removed. This process could take up to thirty days or longer, depending on the chlorides and acidic residual concentration within the capillaries.

In conditions where salt air humidity attacks the concrete, causing oxidation of the reinforcing steel, DPDS has proved to halt such corrosion activity. When applied to concrete exposed to such conditions, exfoliation or expulsion of the chlorides takes place.

PRECAUTIONS: Protect vehicles, glass surfaces, plant life, aluminum, ceramics, glazed tile and wood from overspray. Remove overspray with water immediately. Unprotected areas should be pre-wet with water and rinsed continuously. Eye protection, gloves and appropriate clothing should be worn to minimize skin contact. CAN ETCH GLASS. Remove immediately. **Do not apply 48-72 hours before or after freezing temperatures.**

APPLICATION TO CURED CONCRETE:

Shake well before using. Surface must be free from oils, grease, curing agents, coatings, sealers or any other products that would inhibit the penetrations of the sealer. Do not dilute or alter. Protect from freezing. Application temperature range 40° to 100° F. Product may be applied by brush, roller or low pressure sprayer.

Vertical Surfaces: Apply from top to bottom to point of refusal. Apply sealer in multi-coat applications using a low-pressure sprayer. After the first coat has soaked in, immediately apply the second coat. Apply only as much material as the surface will readily absorb. Areas that absorb sealer at faster rate will require additional coats.

Horizontal Surfaces: Avoid over-application and puddling. **Excess unreacted DPDS will leave white crystals on concrete.** Brush or broom to more porous area. Successive applications should be applied approximately 30-40 minutes apart until surface refuses product. Each application is to be applied so that a light wet sheen appears on the concrete. Note: an additional application may be needed 1-3 day later due to SS-DPDS settling leaving untreated capillaries.

Final Step: Application 30-40 minutes after the last application of DPDS, two light coats of potable water, 30-40 minutes apart, is to be applied to the surface. The water carries and locks uncured potassium crystals into the concrete. The application of potable water also leaves the top of the concrete open to accept applications of stains, primers, water repellents, or coatings. After the final application of potable water, the area can be put back into service.

CURE TIME:

DPDS must be allowed to cure for 1-10 days, depending upon temperature, humidity and density of the concrete, before any other type of surface material is applied.

CURE AND SEAL FOR NEW CONCRETE:

Can be used to cure and seal newly placed concrete. **Method:** Upon removal of forms or disappearance of bleed water and when concrete will not be marred by walking workmen, use a low-pressure sprayer with a fan-tip nozzle producing ½ gal per min. with 40 psi, a brush or roller to apply a uniform film. Avoid puddling in low areas.

VERTICAL SURFACES: Apply from top down using a low pressure sprayer (40 psi) with a fan type nozzle or with a roller with a minimum 3/8" nap. Flood surface until excess runs down 6-8 inches below spray pattern. For maximum coverage, a second wet-on-wet re-application within 20-40 minutes is recommended.

HORIZONTAL SURFACES: Apply a flood coat using sufficient materials so surface remains wet for 3-5 minutes. A second wet-on-wet re-application within 20-40 minutes is recommended for maximum coverage.

CAUTION: Avoid over application or ponding as may cause darkening of surface. Brush or broom to spread to more porous area.

DRY TIME: Dry to touch in 2 to 6 hours depending upon temperature and humidity.

COVERAGE: Fresh Concrete: 300-400 sq. ft./gal Cured concrete: Rough Slab Finish: 50 – 150 sq. ft./gal

*Different concrete composites (flash additives) may require different system approaches. Porous block and concrete may require application of Alkaline Pre-treatment before SS-DPDS is applied. Contact SureCoat Systems for further information or application instruction.

COMPLIANCE: VOC/VOS. ASTM C67. ASTM C666. ASTM C23-69. ASTM C805. ASTM C873. ASTM C779. ASTM C39. A23/2-90. USDA compliant for use in food processing areas.

CLEAN UP: Rinse equipment with cold water. Dispose of empty containers appropriately.

For technical assistance call a SureCoat Systems' Product Specialist at 877-823-7873.

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(Revised 1-2017)

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