



SCP Densifier-Pro SD500

Green Products for Construction

Product Data Sheet

Premium Lithium Sealer, Hardener & Densifier for Concrete

Serveon's SCP Densifier-Pro (SDP) concrete densifier is a formulation of penetrating lithium other silicates that react with concrete to produce insoluble calcium silicate hydrate within the concrete pores. SDP's cutting-edge technology easily makes it the premium hardener, densifier and sealer for concrete surfaces. SDP is an effective solution to water migration in concrete. It is a water-borne, deep penetrating, sub-surface densifying, and molecular bonding treatment that creates greatly increased surface hardness, reduces dusting and simplifies maintenance producing a cleaner, healthier environment for years.

SDP is safer, easier and faster to apply than conventional sodium or potassium silicate-based products; SDP will not trigger or contribute to surface ASR (Alkali Silicate Reaction).

TECHNOLOGICAL EDGE

Only SDP is formulated to produce lower surface tension allowing it to penetrate easier and faster; in addition, significantly, SDP's proprietary blend of particle sizes allows it to both penetrate deep and also to react with the surface pores and capillaries which is the primary line of contact; as capillary pore space is filled the hardened properties of concrete are substantially improved.

ADVANTAGES

- Penetrates and reacts quickly to produce better initial and ultimate hardness.
- Easy, one step application. No flushing, no scrubbing, no caustic wastewater.
- May be applied to broom finished, steel troweled, power troweled or burnished concrete finishes.
- Provides superior abrasion resistance than conventional hardeners.
- Produces a fast surface gloss which improves with traffic and maintenance.
- Improves performance, appearance and light reflectance of new or old concrete.
- Reduces application time and costs of diamond polishing operations.
- Will not contribute to surface crazing. High lithium content combats surface ASR.

- Gloss and hardness do not reduce slip resistance.
- Lithium will not absorb water or contribute to floor sweating.
- Breathable and UV stable. Will not yellow, discolor, peel or flake.
- VOC Compliant. Non-flammable. Non-toxic. Low odor.
- Cures quickly. Most floors can be opened to traffic within one hour of treatment.
- Treated surfaces are easy to maintain and require no waxing

TYPICAL TECHNICAL DATA

FORM	clear, water-like liquid
SPECIFIC GRAVITY	1.1
pH	11
WT/GAL	9.2 lbs
ACTIVE CONTENT	14.50%
TOTAL SOLIDS	14.50%
VOC CONTENT	< 20 g/L
FLASH POINT	NA
FREEZE POINT	32°F (0°C)
SHELF LIFE	2 years in unopened, factory-sealed container

REGULATORY COMPLIANCE

VOC Compliance – SDP is compliant with the following national, state and district AM VOC regulations

- ✓ US Environmental Protection Agency
- ✓ California Air Resources Board SCM Districts
- ✓ South Coast Air Quality Management District
- ✓ Maricopa County, AZ
- ✓ Northeast Ozone Transport Commission



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PREPARATION

Protect people, vehicles, property, plants and all adjacent surfaces from product overspray, splash and wind drift. Use polyethylene or other proven protective material. Surfaces must be clean and structurally sound. Remove all foreign materials including bond breakers, curing agents, surface grease and oil, and construction debris. Application may begin as soon as prepared surfaces are dry and free of pooled water.

Surface should wet uniformly; if in doubt test for absorbency with a light water spray – surface should wet uniformly.

Acid-stained concrete must be thoroughly neutralized and rinsed prior to application.

NEW CONCRETE

May be applied to freshly placed concrete after final finishing and installation of the control joints.

EXISTING CONCRETE

SDP is ideal for application to existing, cured concrete of any age.

SURFACE & AIR TEMPERATURES

Temperatures for application should be 40-100°F (4-38°C).

EQUIPMENT

Apply with low-pressure sprayer, mop or a soft-bristled push broom. Spray applicators equipped with 0.5 gallon per minute - .019 fan spray tip are effective for application of this product.

STORAGE & HANDLING

Store in a cool, dry place. Always seal container after dispensing. Do not alter or mix with other chemicals. Published shelf life assumes upright storage of factory-sealed containers in a dry place. Maintain temperatures of 40-100°F (4-38°C). Keep from freezing. Do not double stack pallets. Dispose of in accordance with local, state and federal regulations.

APPLICATION GENERAL

ALWAYS TEST using the equipment and procedures selected for general application. Follow the application instructions below to pre-test each slab. Pretesting will confirm the suitability of the surface preparation and application procedures proposed for general application. Pre-testing will also determine the average coverage rates to be maintained over the entire project. Let surfaces dry thoroughly before inspection and approval. Surfaces to be treated must be clean, dry and absorbent. Confirm surface absorbency with a light water spray – surfaces designated for treatment should wet uniformly.

DILUTION

Do not dilute or alter.

Typical Coverage Rates

Variations in concrete quality, porosity, job site conditions, temperature and relative humidity will affect coverage rates and drying times. Typical coverage rates are as follows:

Freshly Placed, Uncured, Steel Troweled Concrete

- 600–800 square feet per US gallon
- 56–93 square meters per US gallon
- 15–25 square meters per liter

Cured, Steel Troweled Concrete

- 500–700 square feet per US gallon
- 46–83 square meters per US gallon
- 12–22 square meters per liter

Cured, Ground/Honed Concrete

- 400–500 square feet per US gallon
- 37–74 square meters per US gallon
- 10–20 square meters per liter

APPLICATION GUIDELINES

Freshly Placed, Uncured Steel-Troweled Concrete

1. After final finishing, soft cut control joints. Clean concrete of any dirt, residue or debris.
2. Using a low-pressure sprayer, apply a single coat sufficient to wet the surface without producing puddles. Use a clean microfiber pad to spread product evenly and ensure uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary. If



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surfaces dry immediately, apply more product. Surface should remain wet for 5–10 minutes. Adjust rate of application to eliminate puddles.

3. Allow treated surfaces to dry.

4. Immediately apply the specified curing compound or initiate the specified curing procedure.

5. When curing is complete, use an automatic floor scrubber equipped with cleaning pads or brushes

appropriate for removal of accumulated construction soiling and surface residues. Avoid pads or brushes which may damage the finished floor. This will further enhance the sheen produced.

Cured, Steel Troweled Concrete

1. Surface must be clean, dry and absorbent, and must wet uniformly. Test surface absorbency with a light water spray. To slow dry times in hot, dry weather conditions, lightly pre-wet the concrete with fresh water and allow any standing water to evaporate.

2. Using a low-pressure sprayer, apply a single coat sufficient to wet the surface without producing puddles. Use a clean microfiber pad to spread product evenly and ensure uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary. If surfaces dry immediately, apply more product. Surface should remain wet for 5–10 minutes. Adjust rate of application to eliminate puddles.

3. Allow treated surfaces to dry.

4. Remove dried powder residue using stiff broom, power sweeper or floor scrubbing machine.

5. For immediate, enhanced shine, buff or burnish the dry concrete surface in both directions using an orbital floor machine or burnisher equipped with an appropriate polishing pad. This is a dry buffing operation.

Cured, Ground/Honed Concrete

1. Sand, level or grind the surface with a floor sander, orbital floor machine or diamond grinder, as needed, to achieve desired exposure. Remove all dust and debris with a floor scrubbing machine and fresh water. Allow wet surfaces to dry. Surfaces must be clean and dry.

2. Using a low-pressure sprayer, apply a single coat sufficient to wet the surface without producing puddles. Use a clean microfiber pad to spread product evenly and ensure uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary. If surfaces dry immediately, apply more product. Surface should remain wet for 5–10 minutes. Adjust rate of application to eliminate puddles.

3. Allow treated surfaces to dry.

4. Remove any dried powder residue using stiff broom, power sweeper or floor scrubbing machine.

5. If additional surface sheen is desired, buff or burnish the surface in both directions with an orbital floor machine or burnisher equipped with an appropriate polishing pad. This is a dry buffing operation.

Cured and Polished Concrete

Follow steps 1–4 listed above for Ground/Honed Concrete. Using progressively finer abrasives, continue diamond polishing in consecutive steps to achieve the desired finish. Remove all polishing dust and debris.

CLEANUP

Clean equipment with fresh water before product dries. Wash off any over spray area, especially if on aluminum or glass with fresh water.

THE RESULT

PROTECTIVE TREATMENT

For improved resistance to water stains with no change to surface appearance use SCP Repellant or Serveon's NS200 Natural Stone Seal.

For resistance to oily stains caused by vehicles etc. with only a slight darkening to the surface use RS700 HD Oil Block.

LIMITATIONS

Limited shelf life – remains storage stable for approximately 24 months in sealed containers.



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**CAUTION HARMFUL OR FATAL IF SWALLOWED.
EYE, SKIN AND RESPIRATORY IRRITANT.
Keep Out of Reach of Children**

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