

PS104 Lithium Silicate w/ Siliconate Densifier WB Penetrating Sealer

Zero VOC, Water Based Concrete Floor Densifier & Hardener

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Product Description

PS104 is a premium lithium silicate solution with a siliconate water and salt repellent additive that is designed to penetrate into most unsealed cementitious surfaces to densify, harden, and increase the strength of the top layer of a substrate while retaining its breathability. It is easier and more efficient to apply than traditional sodium silicate densifiers and will not contribute to ASR (Alkali Silica Reaction). It is an ideal treatment for machine troweled, burnished, or polished concrete surfaces. Once the sealer chemically reacts with the surface, the PS104 improves the abrasion resistance and durability of a surface, provides long term protection against wear and traffic, reduces dusting not caused by actual surface defects, and lowers the overall maintenance of a surface. It also provides resistance to water and moisture, efflorescence, dirt buildup, mold and mildew, and salts and deicing chemicals. It can also serve as a concrete polishing aid by producing better initial surface hardness that reduces polishing time and yields a smoother and denser burnished or polished surface. Sealer is environmentally friendly, VOC compliant, non-flammable, and has odorless formula for safe indoor use. PS104 has a clear appearance. Upon proper application, the substrate will have little, or no, noticeable change in appearance when dry. However, a polished appearance can normally be imparted to burnished or polished surfaces by applying with scrubber or polisher and then buffing with a white pad.

Recommended Uses

PS104 was originally developed for commercial and industrial applications and is widely used throughout North America to this day for those applications. Concrete Sealers USA is now also making this professional grade sealer available to the residential market so small contractors, applicators, and do-it-yourselfers can enjoy the same superior benefits that architects, engineers, and large contractors have enjoyed for years. PS104 is recommended as a densifier and hardener for machine troweled concrete surfaces. It can also be used on other cementitious surfaces where densifying and hardening benefits along with water repellent characteristics are desired. It is also recommended as a polishing aid for burnished or polished concrete surfaces. It is ideal for sealing commercial and residential concrete floors such as workshop floors, warehouse floors, automotive garage floors, retail store floors, pole barn and shed floors, basement floors, garage floors, and other machine troweled, burnished, or polished concrete surfaces.

Product Characteristics

SDS Information / Physical and Chemical Properties

Boiling Point:	212° F	pH:	N/A
Vapor Pressure:	N/A	Flashpoint:	>212° F
Solubility in Water:	N/A	Flammable Limits:	Lower Limit: N/A; Upper Limit: N/A
Evaporation Rate:	N/A	Finish:	Flat/Clear, Slight Sheen w/ Polishing
Appearance and Odor:	Clear w/ Slight Odor	Drying Time**:	Dry to touch 1-3 hours; traffic 6-12 hours
Specific Gravity:	(H ₂ O-1): 1.0	Shelf Life***:	1 year unopened
% Volatile by Volume:	0 g/L		

Coverage Rates*: 300-450 sq. ft./gal. for machine troweled and smooth surfaces.

*Coverage rates are approximate and for estimating purposes only. Application rate based upon porosity and absorption. Always test absorption prior to application.

**Drying times are for estimating purposes only. Actual drying time is based upon temperature, humidity, air flow.

***Store container upright indoors in a cool, dry place and maintain temperature of 55°F to 85°F.

Performance Characteristics

VOC and OTC compliant in all areas of the United States

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Color

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Ordering & Shipping Information

Packaging: 1 gal. Jugs
5 gal. Pails
55 gal. Drums

Shipping: Normal package delivery and trucking

Surface Preparation

Substrates to be sealed ideally will be a minimum of 28 days old and/ or be fully cured. The surface must be porous enough to allow penetration into the substrate. If applied to freshly placed concrete, surfaces should be clean, dry, free of bleed water, final finishing process completed, and sufficient strength to be stood on without being marred. Added benefits can be obtained by waiting 7 days after placement when peak hydration and off gassing have slowed enough to allow better penetration of the sealer into the substrate. For existing surfaces, substrates should be clean and free of surface laitance, dust, dirt, debris, mildew, oil, grease, previous sealers, curing agents, paint or other surface coatings, and other contaminants. If acid or other cleaning compound is used for cleaning or etching the surface, neutralize the surface completely before application of PS104.

Application

Always test porosity prior to application, especially on very dense surfaces. Surface should be dry for proper penetration of the sealer. Should not apply to damp or wet surfaces. Product is a one part system and requires no special mixing. Stir material thoroughly before and during application. Do not apply below 40°F or above 95°F during the application or drying period. Apply uniformly with a low pressure sprayer. When applying material, work in small, manageable areas at a time in order to maintain a wet edge. Product should be applied to the point of rejection and be fully absorbed within 10 minutes without puddles. Use a broom, roller, or microfiber pad to evenly distribute product as well as disperse any puddles as excessive application may result in white residue (especially on darker or colored surfaces) which will not affect sealer performance and generally dissipates over time or by power washing. To reduce likelihood of white residue on surface, rinse the surface thoroughly with water 2 hours after final application of sealer and then sweep up to remove any residual materials. Generally, only one application is required. If additional coats are desired and more product can be absorbed, wait approximately 1-2 hours between coats. For a more polished appearance on burnished or polished surfaces, apply using a floor scrubber (black pad) or high speed polisher and then buff with a white pad after 12 hours. Clean application materials with warm water.

Limitations

PS104 is designed to work only on porous concrete surfaces and is not intended for asphalt. This product may damage vegetation or may etch glass, vinyl, aluminum, plastic, and metal. Avoid contact with eyes and skin. Sealer may be damaged if frozen prior to use. Not intended to seal cracks. Will not remediate structurally unsound surfaces with defects such as chronic dusting or chalking. The use of high alkaline or acidic cleaners on the treated surface is not recommended and can be damaging. PS104 is not oleophobic and is not intended as an oil repellent. The Company does not warranty specific performance results or compatibility with products manufactured by others. The Company shall bear no liability, other than replacement of defective product. A small test must be conducted prior to application. Based upon this test, the purchaser shall determine for themselves the suitability of this product for the intended use.

Environmental & Regulatory

PS104 complies with EPA, FDA and OSHA strict requirements and contains no solvents or Volatile Organic Compounds (VOC). This product is considered a non-hazardous chemical under OSHA Hazard Communication Standard (29CFR 1910.1200). Contact may cause skin or eye irritation. Using with adequate air ventilation, eye protection, and gloves is recommended.

Safety & First Aid Precautions

Eyes: Flush with water for at least 15 minutes.
Skin: Wash thoroughly with soap and water.
Inhalation: Move subject to fresh air.
Digestion: Consult physician immediately.