

PermaGuard SPS™

High Gloss, Stain Protection System for decorative and high performance concrete floors

MANUFACTURER

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PRODUCT DESCRIPTION

PERMAGUARD SPS is the answer to the common floor staining problems of concrete, stone, marble and terrazzo surfaces due to spillage and penetration of varied common contaminants found in grocery complexes, school cafeterias and restaurants.

PERMAGUARD SPS is a low odor, VOC compliant, topical sealer consisting of low molecular emulsified cross-linking, coupling polymers that effectively protect concrete and other natural stone floor surfaces from the damaging effects of staining, defacing and deterioration due to contaminant penetration. This protection extends to bare concrete floor surfaces that have been treated with chemical densifiers such as L&M SEAL HARD and on floors that have been ground and polished using L&M's FGS PermaShine Polished Concrete System.

Floors treated with PERMAGUARD SPS are easier to clean and keep clean. It develops a long lasting high gloss finish that improves light reflectance and eliminates the need for floor waxes, polishes and conventional epoxy based coatings. The intensity of the colored and dyed floors will be enhanced with the application of PERMAGUARD SPS. Maintenance is simple, with the regular use of L&M's FGS CONCRETE CONDITIONER.

Basic Use: PERMAGUARD SPS protects bare concrete and other surfaces from contaminant penetration and effectively resists oil, water, wine and other liquid penetration in warehouses, grocery stores, restaurants, school service cafeterias, wine shops, rest rooms and display rooms with polished decorative concrete. Other typical applications include vehicle repair facilities, machine shops, bus terminals, concrete pavers and natural stone surfaces.

FEATURES & BENEFITS:

- *Excellent repellency protection from fluids (wines, vinegar, fruit juices and organic acids) and will also protect surface gloss from deteriorating.*
- *Excellent oil and grease repellency to resist staining and improve aesthetics.*

- *Quickly opens to traffic*
- *Non-slip performance.*
- *Exceptional scuff and scratch resistant*
- *Enhances stained and colored concrete*
- *Compatible with floors previously treated with chemical hardeners and densifiers.*
- *Minimizes UV attack on dyed concrete surfaces*

ESTIMATING

This product is packaged in ready-to-use 1 gal. (3.8 liter), 5 gallon (18.9 liter) pails, and 55 gallon (208 liter) drums. Containers are identified with product name and production batch code.

Typical coverage rates, depending upon substrate porosity and anticipated conditions are:

Concrete: 800-1,500 sq.ft./gallon
Stone: 1000-1500 sq.ft./gallon

COMPLIANCE AND STANDARDS

VOC compliant
US Environmental Protection Agency
California Air Resources Board SCM Districts
Northeast Ozone Transportation Zone
Maricopa County Arizona
SCAQMD, California
ADA and OSHA compliant non-slip performance
NSF (Supersedes USDA Approval)

TECHNICAL DATA

Physical properties:

Composition	emulsified cross-linking polymers.
Color	Milky White
Total Solids	24%
Viscosity	Water-like
pH	8.5
Odor	Pleasant
Slip Coefficient of Friction (wet).....	>0.6
Film	Yes
VOC, grams/liters	<50

INSTALLATION

Surface Preparation:

Surfaces should be clean from dust, dirt oils, grease, curing compounds, other coatings, efflorescence and laitance before applying PERMAGUARD SPS. Wait a minimum 28 days on new concrete before applying PERMAGUARD SPS. On chemically hardened, polished concrete allow a minimum of 48 hours between application of hardener and the application of PermaGuard SPS.



PERMAGUARD SPS



Premoisten micro-fiber pad with PERMAGUARD SPS. Working form joint to joint, apply evenly and thinly with fine spray and pad. Do not puddle. Burnish after final coat has dried a minimum of 4 hours, using a high speed, 3000 RPM burnisher with soft white pad or soft natural hogs hair. Burnishing is necessary for enhanced gloss and improved durability and chemical resistance. If multiple coats are to be installed, allow previous coat to dry (normally 15 to 30 minutes, at 70°F).

Cleanup: Thoroughly rinse equipment with clean water before PERMAGUARD SPS dries. To remove dried film, scrub with ammonia or amine based cleaner over areas where PERMAGUARD SPS has dried.

FOR BEST RESULTS:

- Clean up spills as quickly as possible to minimize potential staining.
- Apply within temperature range of 50°F (10°C) and 100°F (40°C).
- Maximum protection is normally realized after 48 hours of curing time has elapsed.
- Install a test patch to best determine final appearance and results.
- Cool, humid conditions may prolong dry time and result in a haze. Concrete should be fully cured (28 days).
- Burnish with black synthetic or hogs hair pad to increase protection from contaminant penetration and to increase gloss.
- For interior use only.
- Use of ammonia or amine based cleaners will remove this product over time.
- Regularly maintain **PERMAGUARD SPS** surfaces with **FGS CONDITIONER** with soft, white scrubbing pads.

Protective performance of two applications of **PERMAGUARD SPS** against food spillage, water, oil and grease contaminant penetration and surface deterioration. Exposure within 60 minutes.

Olive oil	Excellent
Balsamic vinegar	Very Good
Red wine	Very Good
Motor Oil	Excellent
Pickle relish	Very Good
BBQ sauce	Very Good
Fruit juices	Excellent
Milk	Excellent
Tomato paste	Very Good
Ketchup	Excellent
Urine	Very Good

PRECAUTIONS:

Applicators should wear rubber gloves and eye protection. Keep from freezing. Frozen **PERMAGUARD SPS** is unusable. Keep container closed when not in use. Protect glass, plastic products, shrubbery and plant life from overspray. Do not expose to ammonia or amine based cleaners or film damage and removal will result.

Please refer to the material safety data sheet (MSDS) for more detailed information.

STORAGE/SHELF LIFE

PERMAGUARD SPS has a shelf life of up to 12 months provided it is stored in a tightly closed container and protected from sunlight, and stored at temperatures between 40°F (4°C) and 100°F (40°C).

WEBSITE

L&M's convenient internet website offers instant access to Tech Data Sheets, Material Safety Data Sheets, product updates, and other useful information. Visit www.lmcc.com and follow the easy steps. L&M is ready to respond to your concrete information needs - anytime - anywhere!

LIMITED WARRANTY

This product is warranted to be free of defects in material and workmanship, and conforms to L&M Construction Chemicals ("L&M") quality control standards. All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty or guaranty of any kind, expressed or implied, including but not limited to, an implied warranty of merchantability or an implied warranty of fitness for a particular purpose. Satisfactory results depend upon many factors beyond L&M's control. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss, damage, expense and liability resulting from his or her direct use, indirect use or consequential to their use of the product. L&M shall not be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use or inability to use the product. L&M's sole responsibility shall be to replace that portion of the product which proves to be defective. Any warranty claim must be made within six (6) months from the date of the claimed breach. This limited warranty applies only if the product was properly installed and used according to all instructions and was properly stored prior to use.

For Professional Use Only.