

## PermaGuard SPS™

Surface Protection System

### MANUFACTURER

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### PRODUCT DESCRIPTION

PERMAGUARD SPS is a quick drying, low odor, water-based solution containing a new generation, VOC compliant emulsion of organic, crosslinking, low molecular weight polymers.

PERMAGUARD SPS penetrates and leaves a non-darkening film that effectively protects concrete and other porous surfaces from oil drippings and food stains. This product is compatible with and recommended for use with chemically hardened and densified concrete floors, especially retail, commercial, and industrial floors that have either been treated with L&M Seal Hard, or have been ground and polished using L&M's FGS/PermaShine Polished Concrete process. Floors treated with PERMAGUARD SPS are easier to clean and keep clean. Also, integrally colored and dyed floors are enhanced with the application of PERMAGUARD SPS.

PERMAGUARD SPS is effective on a wide variety of natural and mineral substrates including concrete, natural stone, and unglazed ceramic tile.

**Basic Use:** PERMAGUARD SPS protects surfaces from oil, water, and other common contaminant penetration. This product is recommended for use on a variety of surfaces, including bare concrete floors. This product is compatible with polished and bare concrete floors that have been treated with chemical hardeners and densifiers. Typical applications include grocery stores, retail, restaurants, food service, school cafeterias, wine shops, restrooms vehicle maintenance areas and mechanical rooms.

### FEATURES & BENEFITS

- *Compatible with chemically hardened floors: especially, L&M's Seal Hard and FGS/PermaShine*
- *Rejuvenates with dry buffing.*
- *Provides good floor repellency, resisting staining for improved aesthetics.*
- *Makes oil and grease easier to remove from treated surfaces decreasing maintenance requirements.*
- *Low odor and low VOC.*
- *UV stable and resistant to biological degradation for longer service life.*
- *Resists cracking, peeling and blistering, and allows moisture vapor release.*

### FOR BEST RESULTS:

- Clean up spills as soon as possible to minimize potential staining. PERMAGUARD SPS treated and protected surfaces may absorb oil or water if exposed over an extended period of time.
- Do not apply if surface temperature is below 40°F (4°C) or above 100°F (40°C)
- For interior use only.
- Excessive application of PERMAGUARD SPS may cause a darkening of the surface.
- Maximum stain resistance is gained within 1-2 days after installation.
- On commercial floors, treated surfaces will resist adherence of paints and coatings. As a result, striping paints should be applied before treatment.

### ESTIMATING

PERMAGUARD SPS is packaged in one gallon (3.8 liter) and five gallon pails (19 liter). Containers are identified with product name and production batch code.

Coverage:

Smooth, polished or hard steel troweled concrete:  
1,000 to 2,000 sq ft./gallon  
Second and subsequent protective coats, as needed  
1,000 to 2,500 sq ft./gallon.

For extra protection on surfaces that will be exposed to a high level of contamination, additional light coats may be necessary. Apply after previous coat has dried (normally 30 minutes) and within 4 hours of the last application. Cool and humid conditions may prolong dry time and result in a slight haze.

### TECHNICAL DATA

#### Physical properties:

Appearance	Milky White, emulsion
Total solids	20%
Composition	organic polymer emulsion
Solvents	None
Flash Point	None
Density lb/gal (g/ml)	8.7 (1.04)
Viscosity cps	Water like
Abrasion Resistance	excellent
Film	Yes
Slip Coefficient of Friction (wet)	>0.5
pH	8.5
VOC, g/l	<150



**PERMAGUARD SPS**



## Stain resistance on steel troweled concrete, two applications of PERMAGUARD SPS.

Olive oil	very good
Balsamic Vinegar	very good
Red Wine	very good
Motor Oil	excellent
Pickle Relish	very good
BBQ Sauce	very good
Transmission Fluid	excellent
Fruit juices	excellent
Urine	very good

## INSTALLATION

**Surface Preparation:** Surfaces should be clean from dust, dirt, oils, grease, curing compounds, other coatings, efflorescence, and laitance before applying **PERMAGUARD SPS**. On chemically hardened, densified, or polished concrete, allow a minimum of 48 hours between application of hardener and the application of **PERMAGUARD SPS**.

New concrete should be allowed to cure for at least 28 days before applying **PERMAGUARD SPS**. In addition, any repair work should be performed at least 3 days before **PERMAGUARD SPS** is applied.

**Application:** Pre-moisten the pad with **PERMAGUARD SPS** before use. Apply to a dry, clean floor surface with a fine spray or a flat, micro-fiber pad. Even out with pad to remove all puddles and over-applications. Water and oil repellency starts to develop within 24 hours and is complete within 3 to 4 days.

Apply test patch prior to general application to ensure that desired water, oil, and stain repellency, as well as appearance, is achieved on surfaces. Apply lightly and uniformly. Do not puddle.

**Treated surface clean up:** Clean up spills immediately by blotting area with absorptive cloths or paper towels, minimize scrubbing as this action may spread the stain. Surfaces treated with **PERMAGUARD SPS** should be regularly cleaned with compatible **FGS Concrete Conditioner** or other neutral cleaning solution. Over time, surfaces which have been repeatedly cleaned might need reapplication with **PERMAGUARD SPS**. Do not use cleaners containing ammonia or amine based cleaning agents.

Thoroughly rinse application equipment with clean water. **PERMAGUARD SPS** may be removed with high alkaline cleaners containing ammonia.

## PRECAUTIONS:

Applicators should wear rubber gloves and eye protection. Keep from freezing. If **PERMAGUARD SPS** freezes, it cannot be thawed, mixed and reused. Keep in an enclosed container when not in use. Protect glass, plastic products, shrubbery and plant life from over spray. Do not expose to ammonia or amine based cleaners or film damage and removal will result.

## STORAGE/SHELF LIFE

**PERMAGUARD SPS** has a shelf life of twelve months provided it is stored in a tightly closed container, 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](http://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.

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