



USG DUROCK™ BRAND LSP™ LIQUID SURFACE PROFILER

Innovative, biodegradable concrete cleaner and surface profiler

- Dust-free replacement for grinding, shot blasting and acid etching
- Proprietary catalyst reacts with free minerals at the concrete paste layer, bringing them and other contaminants to the surface for easy removal
- Low VOC formula can be used for indoor, outdoor, horizontal, above and below grade
- Prepares concrete for moisture mitigation systems, pourable underlayment, floor patches, sealers and coatings
- Self-neutralizing formula
- Easy to use and apply; up to 50% faster than mechanical preparation methods

DESCRIPTION

USG Durock™ Brand LSP™ Liquid Surface Profiler is a dust-free alternative to cleaning and profiling concrete for indoor, outdoor, horizontal, above and below grade applications. It is the ideal product for preparing concrete for the application of moisture mitigation systems, underlayments, floor patches, sealers and coatings. The innovative chemistry of this product is biodegradable, self-neutralizing and low-fume, unlike most etching products. As USG Durock™ Brand LSP™ Liquid Surface Profiler reacts with and breaks down the free minerals and contaminants residing in the top 3-4 mm of the concrete surface, impurities are lifted to the surface for easy removal. The process results in the opening of the pore structure, which improves adhesion of secondary surface treatments. USG Durock™ LSP Liquid Surface Profiler is ready-to-use right out of the bucket, is easily applied and removed after approximately 2 hours of dwell time. Concrete surface profiles of 1-3 can be easily achieved after just one application. For heavily soiled concrete, or when a CSP 3-4 is required, two applications may be required.

EXTENDED WARRANTY

An extended warranty may apply when using USG Durock™ LSP Liquid Surface Profiler in a system application. Please contact USG for further details.

INSTALLATION SUBFLOOR PREPARATION

All subfloors must be structurally sound, stable and solid. If there is any question about the structural soundness of the subfloor, consult with the engineer on the project or request the services of a professional structural engineer.

Remove any accumulated dust and loose debris from the surface by pressure washing or by using a HEPA filtration industrial vacuum or other suitable means. USG Durock™ LSP Liquid Surface Profiler can be applied to green concrete in as little as 7 days when a moisture mitigation system will be installed. For other applications, the concrete subfloor to be treated must be cured properly (generally for a minimum of 28 days) prior to the application of USG Durock™ LSP Liquid Surface Profiler. Areas contaminated with petroleum-based contaminants may require treatment with a degreaser prior to application of the product. Any film forming coatings such as paint, epoxy, floor-covering adhesives or any other contaminant that prevents the USG Durock™ Liquid Surface Profiler from coming in contact with the concrete paste layer must be mechanically removed.

Note Densifiers or hardeners can be removed by USG Durock™ LSP Liquid Surface Profiler. Adhesive residues can be removed using USG Durock™ LSP Liquid Surface Profiler in conjunction with the “wet-scraping” technique as recommended by the Resilient Floor Covering Institute’s (rfci.com) *Recommended Work Practices for Removal of Resilient Floor Coverings* to remove thick areas and adhesive buildup.

INSTALLATION CONT.**TOOLS**

- Safety glasses or splash-proof goggles
- Protective gloves
- Painter's mask
- Long sleeved shirts and trousers
- HEPA filtration industrial vacuum
- Pressure washer
- Low pressure sprayer with fan tip
- Squeegee
- Stiff bristle (non-metal) broom
- Low speed floor machine with a black stripping pad or brush attachment or walk behind scrubber
- Wet vacuum system

MIXING

USG Durock™ Brand LSP™ Liquid Surface Profiler is ready-to-use from the pail. Do not dilute.

APPLICATION

The physical properties of every concrete slab are unique depending upon the nature and porosity of the subfloor. Therefore, it is recommended to perform a test area to determine the required coverage rate, dwell time and substrate suitability for each project to ensure a satisfactory result. Concrete floors to be treated can be damp but should not have standing water on the surface prior to application of USG Durock™ LSP Liquid Surface Profiler.

Ensure all areas not to be treated (such as metals, painted or coated substrates, or foliage) are properly protected before application begins. Any overspray should be wiped off as soon as possible. The temperature of USG Durock™ LSP Liquid Surface Profiler, the subfloor and the room must be maintained between 40 °F and 95 °F (5 °C- 35 °C) for a period of 24 hours before and during application. Product should not be allowed to dry during the cleaning process. If this occurs, apply more product to maintain a wet surface.

For horizontal applications, USG Durock™ LSP Liquid Surface Profiler can be spread with a squeegee, ¼ in. (6 mm) nap roller or applied using a low-pressure sprayer. For squeegee or roller application, pour the product in a ribbon format to the properly prepared concrete substrate and spread the material at an approximate rate of 225 sq. ft. (20.9 m²)/per gallon (3.79 L). When using a low-pressure sprayer, apply USG Durock™ LSP Liquid Surface Profiler using a fan tip ensuring even coverage at approximately 225 sq. ft. (20.9 m²) / per gallon (3.79 L). Apply evenly to ensure liberal, uniform coverage over the surface to achieve a uniform surface profile.

After approximately 15 – 20 minutes, work solution into the surface using a stiff bristle (non-metal) broom, low speed floor machine with a black stripping pad or brush attachment or walk behind scrubber. More agitation may be needed for stubborn contaminates, adhesive residue, heavily soiled concrete, or less porous concrete if a more aggressive profile is required.

Note Dwell time will vary depending upon the nature and porosity of the subfloor. For surface cleaning applications, the product may be removed in as little as 15 minutes. When using USG Durock™ LSP Liquid Surface Profiler for profiling to a CSP 1-2, a dwell time of 1-2 hours is recommended. A longer dwell time or a second application may be required to achieve a more aggressive profile. Test area preparation is the best method to determine the adequate dwell time for each project.

PRODUCT REMOVAL

After the appropriate dwell time, wash the entire area that has been treated. Pressure washing followed by wet vacuuming is the recommended method to thoroughly remove the residues. For indoor applications without a drain, a walk behind floor scrubber or wet vacuum system can be used. Areas with oily residues must be re-washed to ensure all USG Durock™ LSP Liquid Surface Profiler and resulting contaminates are removed. Failure to address these areas may interfere with the application or adhesion of secondary surface treatments such as moisture mitigation systems, floor preparation products or wear surface treatments.

NOTES/LIMITATIONS

1. Do not freeze.
2. Do not dilute.
3. Do not atomize or allow product to become a mist or suspended in air.
4. Ensure all areas not to be treated (such as metals, painted or coated substrates, or foliage) are properly protected before application begins. Any overspray should be wiped off as soon as possible.
5. Use In well ventilated areas. In confined spaces, use a painter's mask.

PRODUCT DATA

pH: < 2

Approximate Coverage: Up to 900 sq. ft. (83.6 m²) per 4 gal. (15.14 L) pail depending on application

Physical State: Liquid

Color: Yellowish

Scent: Odorless once activated and removed

Flash Point: Not Applicable

Viscosity: < 1000 cP

Biodegradable: Yes

Packaging: 4 gal. (US) (15.14 L) pail

STORAGE

Do not store USG Durock™ LSP Liquid Surface Profiler in freezing conditions. If material becomes frozen, allow to thaw to room temperature. To dispose of empty containers and/or product be sure to follow all local, state and federal regulations. During summer months, do not store product above 95 °F (35 °C). Unused product should be stored in a closed container. USG Durock™ LSP Liquid Surface Profiler has a shelf life of 24 months from the manufacture date in original unopened container.

CLEANUP

Immediately clean all tools and flush all metal vacuum components, spray equipment and nozzles thoroughly with water before USG Durock™ LSP Liquid Surface Profiler dries.

SUBMITTAL APPROVALS

Job Name	
Contractor	Date

PRODUCT INFORMATION

See usgperformanceflooring.com for the most up-to-date product information.

WARNING

Causes skin irritation and serious eye irritation. May cause respiratory irritation. Avoid contact with eyes or skin, ingestion, and inhalation of mist or vapor. Use only in a well-ventilated area; wear a NIOSH-approved respirator if necessary. Wear protective gloves/protective clothing/face protection/eye protection. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Dispose of contents/containers to an approved waste disposal plant. Keep containers closed when not in use. For more information call Product Safety: 1-800-507-8899 or see the SDS at usg.com

KEEP OUT OF REACH OF CHILDREN.

TRADEMARKS

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SAFETY FIRST!

Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read applicable SDSs and literature before specification and installation.

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