



**CITADEL® LITHIUM STAIN GUARD**

**DESCRIPTION AND USES**

Citadel® Lithium Stain Guard is a high performance finish that enhances the appearance and extends the longevity of polished, integrally colored, dyed, and stained concrete, adding shine, stain resistance and abrasion resistance. Effective on concrete and cementitious surfaces that are “stained” or “coated,” this water-based, lithium-fortified product dries quickly to a clear, extremely hard micro-coating that bonds with and protects the substrate. Because of its unique chemistry, Lithium Stain Guard will not lift or peel from the surface, and periodic recoating requires no stripping. This product extends the longevity of the surface and eliminates the need for waxes, polishes, and acrylics. Lithium Stain Guard is non-toxic, non-hazardous, and VOC compliant in all areas of the world.

**PRODUCT FEATURES AND BENEFITS**

- Enhances appearance of colored floors and prolongs/protects color quality
- Delivers rapid gloss with increased abrasion and stain resistance
- Keeps dirt and contaminants from penetrating
- Dries quickly with low odor
- This product will not alter the profile of a surface
- Forms a protective microfilm that is breathable, hard and will not peel or flake
- Safe for food contact per SGS Testing (21 CFR 175.300)
- VOC compliant

**PRODUCTS**

DESCRIPTION	SKU
Lithium Stain Guard 1 Gallon	370981
Lithium Stain Guard 5 Gallon Pail	370993

**COMPANION CLEANERS**

DESCRIPTION	SKU
Clean and Defend 1 Gallon	370984
Clean and Defend 5 Gallon Pail	370997

**PRODUCT APPLICATION**

**READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING PROJECT**

**APPLICATION EQUIPMENT**

Auto scrubber, microfiber pad, low pressure sprayer with conical tip.

**NOTE:** Before application, always do a small test sample in a less-visible area to be sure there are no variables or contaminants in the substrate that may be incompatible with this product.

**PRODUCT APPLICATION (cont.)**

**SURFACE PREPARATION**

Deep clean the surface with an auto scrubber to remove any dirt, laitance, curing compounds or coatings that may prevent Lithium Stain Guard from penetrating the surface. Wipe with microfiber pad, and perform a white-rag wiping test to ensure all dirt and dust has been removed. Do not use citrus or acidic cleaners. If acidic or d-limonene cleaners have been used, neutralize the surface using an alkaline cleaner (TSP, Tide laundry detergent, etc.).

**APPLICATION**

Apply only when temperatures will be above 40°F (4°C) for at least 2 hours following application.

Do not over mix; avoid bubbles or foaming that can make uniform application more difficult. Do not over apply. Very thin coats are best. Apply Lithium Stain Guard using a combination of a low-pressure sprayer and a microfiber pad that has been pre-dampened with the product. Spray on lightly and then spread material thinly and evenly using the microfiber pad. Backpack applicator systems are recommended because they increase application efficiencies and reduce labor. For best results, use joint lines as starting and stopping points. Do not over-work material into the surface - spread it and leave it. Allow each application to dry at least 30-60 minutes between coats or before using.

Second applications will improve sheen and stain protection. Buffing with a high speed burnisher (1500-2100 rpm) and a hog’s hair pad between coats is recommended and will speed curing and improve shine.

Do not cover treated surfaces for at least 1 week as protective coverings may slow curing and cause some whitening by trapping moisture. The surface is ready for use when dry.

**CLEAN-UP**

Use soap and water to clean tools and equipment. Although Lithium Stain Guard is nontoxic and environmentally safe, it is alkaline. Use up or dry out extra material and dispose of according to local regulations. Do not pour into sewer systems or storm drains.

**MAINTENANCE**

Routine sweeping, mopping, and washing of floors with water and Citadel Clean and Defend or neutral pH cleaners is recommended. Plain water is sufficient for most environments. DO NOT USE cleaners that are acidic or that have citrus (d-Limonene) or Butyl compounds.

**CITADEL® LITHIUM STAIN GUARD****PRODUCT APPLICATION (cont.)****LIMITATIONS**

Lithium Stain Guard will not hide stains. Lithium Stain Guard is chemically resistant and helps reduce staining, but some compounds, especially acids, may damage the surface.

Lithium Stain Guard will not bridge or fill cracks and will not salvage honeycombed or structurally unsound surfaces. This product will not alter the profile of a surface. Not suitable for asphalt, non-cement surfaces or painted surfaces.

If Lithium Stain Guard comes into contact with glass, fabric, metal, or painted surfaces, immediately wipe contaminated surfaces with a damp cloth, then wipe dry with a second clean cloth.



**CITADEL® LITHIUM STAIN GUARD**

**PHYSICAL PROPERTIES**

	<b>LITHIUM STAIN GUARD</b>
<b>Resin Type</b>	Lithium Polysilicate
<b>Solids By Volume</b>	21%
<b>pH</b>	11-12
<b>Color</b>	White, dries clear
<b>Odor</b>	Slight ammonia-like odor
<b>Volatile Organic Compounds</b>	<50 g/l
<b>Practical Coverage</b>	1st coat: 1,500-3000 ft <sup>2</sup> per gal (36.8-73.6 m <sup>2</sup> per liter) 2nd and subsequent coats: 3000-4000 ft <sup>2</sup> per gal (73.6-98.2 m <sup>2</sup> per liter) Coverage rate will vary with porosity and environmental conditions
<b>Shelf Life</b>	1 year (unopened, sealed container)
<b>Flash Point</b>	NA
<b>CAUTION!</b>	Protect from freezing
<b>Safety Information</b>	See SDS

Calculated values are shown and may vary slightly from the actual manufactured material.

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