



# ULTRAGUARD

PROTECTANT AND DENSIFIER FOR CONCRETE FLOORS

EUCLID CHEMICAL

## DESCRIPTION

UltraGuard is a water-based polymeric protectant that improves the appearance and durability of concrete floors. UltraGuard contains a powerful stain-resistant additive and is further enhanced with lithium silicate, which provides densification of the concrete surface. This product also contains UV absorbers that enable the UltraGuard to protect colored or dyed concrete against UV degradation. UltraGuard can be used alone or in combination with a reactive sealer such as EUCO DIAMOND HARD or ULTRASIL Li<sup>+</sup> to give concrete floors a glossy finish, harder surface, and protective seal.

## PRIMARY APPLICATIONS

- ~~Health care facilities~~
- Commercial and retail floors
- ~~Health care facilities~~
- Institutional floors
- Schools

## FEATURES/BENEFITS

- Can provide instant gloss to concrete floors
- Water-based, low odor, low VOC content
- Treated concrete is more dense, durable & breathable
- Treated concrete is easier to maintain
- Protects colored or dyed concrete from UV degradation
- Can contribute to LEED points (EQ Credit 4.2)

## TECHNICAL INFORMATION

PROPERTY	RESULT	PROPERTY	RESULT
Appearance	Milky-white liquid	Solids/Active Content	21-23%
Specific Gravity	1.03	VOC Content	111 g/L
pH	9.5 - 10.5	Freeze Point	0° C
Drying Time (Dry-to-Touch)	1 to 2 hours	Flash Point	NA

Stain Resistance (ASTM D 1308)

Staining Agent	Untreated Concrete		After Rebuffing	Concrete Treated with UltraSil Li <sup>+</sup> and UltraGuard		After Rebuffing
	30 minutes	8 hours		30 minutes	8 hours	
Ketchup	2	1	Rebuffing resulted in no improvement in appearance.	4	4	Gloss Restored
Mustard	2	1		3	3	Gloss Restored
Pickle Juice	4 (absorbed into surface)	4 (absorbed into surface)		4	3	Gloss Restored
Balsamic Vinegar	2	1		3	3	Gloss Restored
Red Wine	1	1		3	3	Gloss Restored
Transmission Fluid	1	1		4	4	Gloss Restored
Brake Fluid	1	1		3	3	3
Used Motor Oil	1	1		4	4	4

KEY: 1 - stained, 2 - slight discoloration, 3 - loss of gloss, 4 - no effect

**SPECIMEN PREPARATION:** The untreated and UltraGuard test specimens were honed to 600 grit. The UltraGuard specimens were treated with UltraSil Li<sup>+</sup> after the 220 grit pass. Two coats of UltraGuard were applied after the 600 grit pass, buffing after each coat. Gloss was restored by re-applying UltraGuard and buffing.

## PACKAGING

UltraGuard is packaged in 210 L drums and 20 L pails.

## SHELF LIFE

1 year in original, unopened package

## SPECIFICATIONS/COMPLIANCES

USDA compliant

## COVERAGE

3.8 L of UltraGuard will cover from 46 to 95 m<sup>2</sup> of concrete depending upon the texture and porosity of the surface. *The actual coverage rate required to achieve the appearance and protection desired should be determined by performing a small test application on-site.*

## DIRECTIONS FOR USE

**Surface Preparation:** Cure new concrete by a wet or sheet cure method in accordance with ASTM C 171, or with a curing compound that meets the requirements of ASTM C 309. Euclid Chemical's dissipating curing compound Kurez DR VOX is recommended. To maximize strength and other physical properties of the concrete slab, the American Concrete Institute recommends new concrete cure seven days or longer before removal of the curing method. For fast track projects, the cure time may be reduced at the discretion of the project engineer. If a curing compound is used, it must be completely removed before application of UltraGuard. After the curing method is removed, allow the slab to air dry a minimum of 24 hours prior to application.

All concrete must be clean of dirt, oil, and other contaminants before applying UltraGuard. **The performance of UltraGuard is maximized when applied to concrete already densified with Euco Diamond Hard or UltraSil Li+.** Allow at least 24 hours of drying time after densifier application before applying UltraGuard.

**Application to New or Old Concrete:** Air temperature during application must be between 4°C and 38°C. Prior to application, if the floor is very absorptive, light sprinkling with water is recommended for more uniform coverage and smoother appearance. Do not apply over standing water. UltraGuard may be diluted up to 1:1 with potable water when applying in dry or windy environments to avoid premature drying of the product and streaking during application.

Using a pump-up sprayer, spray UltraGuard on the surface and while wet, immediately spread with a microfiber pad. Ensure that the coverage rate is followed - do not apply too heavily. Keep a wet edge and do not overlap over dried areas to avoid lap marks. Allow the UltraGuard to dry tack-free, about 30-60 minutes, then buff or burnish as desired. Best shine and stain resistance is achieved with a high speed burnisher equipped with a soft pad. Up to three coats can be applied following the same technique - spray, spread, let dry, then burnish. Under normal conditions, the floor will be traffic ready approximately one to two hours following final burnishing. Do not expose the floor to water for 72 hours.

**Floor Joints:** If the floor joints are to be filled after UltraGuard has been applied, they must be thoroughly cleaned before installation of joint filler. Cleaning joints by concrete saw or a grinder equipped with a wire wheel is recommended.

## CLEAN-UP

Clean brushes, tools, equipment and flush sprayer with potable water immediately after use.

## PRECAUTIONS/LIMITATIONS

- Protect UltraGuard from freezing. In the event of freezing, thaw and stir before using.
- Protect metal, glass, wood, paint or brick from contact with UltraGuard. If accidentally oversprayed on these surfaces, wash surface with clean water immediately.
- Acid-stained concrete must be thoroughly neutralized before application of UltraGuard.
- Allow the product to dry 72 hours at 21°C before exposure to water or rain.
- The stain resistance of UltraGuard gradually develops over the first 5-7 days after application and is greatly increased by burnishing. Prevent spills as much as possible during this time. Immediate clean-up of spills will reduce the occurrence of staining.
- In all cases, refer the Safety Data Sheet before use.

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