



# ULTRAGUARD

## PROTECTANT AND DENSIFIER FOR CONCRETE FLOORS

### PACKAGING

ULTRAGUARD is packaged in 20 litre plastic container

### APPROXIMATE YIELD

1 litre of ULTRAGUARD will cover 12 to 25m<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.

### CLEAN-UP

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

### SHELF LIFE

1 Year in original, unopened container.

### 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 coloured 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+ to give concrete floors a glossy finish, harder surface and protective seal.

### PRODUCT CHARACTERISTICS

#### FEATURES / BENEFITS

- Can provide instant gloss to concrete floors
- Water-based - low odour
- Treated concrete is more dense and durable
- Breathable
- Treated concrete is easier to maintain
- Protects coloured or dyed concrete from UV degradation

#### PRIMARY APPLICATIONS

- Interior concrete floors
- Commercial and retail floors
- Diamond polishing concrete
- Distribution centers
- Institutional floors
- Healthcare facilities
- Schools

### TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

PHYSICAL PROPERTY	VALUE
Appearance	Milky-white liquid
Solids Content	21 to 23%
Specific Gravity	1.03
pH	9.5 to 10.5
Drying Time (dry to touch)	1 to 2 Hours
VOC Content	99 g/litre
Freeze Point	0° C
Flash Point	N/A

### STAIN RESISTANCE (ASTM D1308):

Staining Agent	Untreated Concrete		After Rebuffing
	30 minutes	8 hours	
Ketchup	2	1	Rebuffing resulted in no improvement in appearance
Mustard	2	1	
Pickle Juice	4 (absorbed into surface)	4 (absorbed into surface)	
Balsamic Vinegar	2	1	
Red Wine	1	1	
Transmission Fluid	1	1	
Brake Fluid	1	1	
Used Motor Oil	1	1	

1 - Stained; 2 - Slight discolouration; 3 - Loss of gloss; 4 - No effect

Concrete treated with Ultrasil LI+ and Ultraguard		After Rebuffing
30 minutes	8 hours	
4	4	Gloss restored
3	3	Gloss restored
4	3	Gloss restored
3	3	Gloss restored
3	3	Gloss restored
4	4	Gloss restored
3	3	3
4	4	4

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## DIRECTIONS FOR USE

**Surface Preparation:** Cure new concrete by a wet or sheet cure method in accordance with ASTM C171, or with a curing compound that meets the requirements of ASTM C309. To maximise strength and other physical properties of the concrete slab, new concrete should cure for seven days or longer. 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 for 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 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 micro-fiber 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 to 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.

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## 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 for 72 hours at 21°C before exposure to water or rain.
- The stain resistance of ULTRAGUARD gradually develops over the first 5 to 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, consult the Safety Data Sheet before use.