



EUCO-GUARD 100

SOLVENT-BASED, SILOXANE WATER AND CHLORIDE REPELLENT FOR CONCRETE AND MASONRY

PACKAGING

5 gal (18.9 L) pail

Code: 052 05

55 gal (208 L) drum

Code: 052 55

APPROXIMATE COVERAGE

See coverage rate section below for application rates.

CLEAN UP

Use mineral spirits or acetone to clean tools and equipment.

SHELF LIFE

2 years in original, unopened package

SPECIFICATIONS AND COMPLIANCES

- EUCO-GUARD 100 meets the performance standards of NCHRP 244 Series IV
- Complies with Federal AIM Rule VOC regulations

DESCRIPTION

EUCO-GUARD 100 is a deep penetrating siloxane sealer designed to protect concrete structures, decks, pavements and surfaces against the adverse effects of de-icing salts, moisture, weathering and freeze damage. EUCO-GUARD 100 reacts chemically with the concrete to provide a highly effective chloride screen and water barrier. In addition to its ease of application, EUCO-GUARD 100 has the added versatility to be used on both new and old concrete surfaces.

PRODUCT CHARACTERISTICS

FEATURES/BENEFITS

- Provides an efficient, continuous chloride barrier
- Blocks pores and capillaries for outstanding water repellency
- May be applied to new or old concrete
- Extremely high alkali resistance
- Suitable for use over dry or damp (not saturated) concrete
- Full protection in one treatment, but may be reapplied later at any time
- Provides a low cost protection system over the life of a structure
- Protects reinforcing steel against the corrosive effects of surface absorbed chlorides and moisture
- Renders new concrete virtually free of surface scaling
- Helps extend the life of structures, via reduction of water and chloride absorption

PRIMARY APPLICATIONS

- Parking structures
- Lane barriers & ramps
- Bridges
- Marine platforms
- Auto/truck repair bays
- Exterior concrete surfaces

APPEARANCE

EUCO-GUARD 100 is a clear, solvent based material. After placement and drying, the product has virtually no effect on the appearance of dry concrete. EUCO-GUARD 100 treated concrete will cause water to "bead" at the surface.

COVERAGE

Concrete Surface

Troweled smooth

Broomed textured

Application Rate

125 to 150 ft²/gal (3.1 to 3.7 m²/L)

75 to 125 ft²/gal (1.8 to 3.1 m²/L)

Material Requirements: A one coat application using a coverage rate of 125 ft²/gal (3.1 m²/L) will require approximately 8 gal (30.3 L) of material per 1000 ft² (92.9 m²) of area. For exterior concrete with a textured finish, a coverage rate of 75 to 125 ft²/gal (1.8 to 3.1 m²/L) is required to achieve NCHRP #244 results. Higher coverage rates may be used depending on surface porosity and desired level of protection.

TECHNICAL INFORMATION

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

Material Properties	
Drying Time	Dry: 1 to 2 hours Foot Traffic: 4 to 6 hours Wheel Traffic: 10 to 12 hours
Type	siloxane
Flash Point	105 °F (41 °C)
Active Content (by weight)	10%
VOC Content	730 g/L
Solvent	mineral spirits

NCHRP 244 Series IV @ 21 days*	
Reduction in water uptake	92.5%
Reduction in chloride ion uptake	96.0%

*4000 psi (27.6 MPa), 3" (76 mm) x 6" (152 mm) cylinders
5.25% air entrainment, 15% NaCl solution

ASTM C642 Water absorption 24 hour results		
	untreated	Euco-Guard 100
% weight gain	4.85%	0.364%
water repellency factor	-	92%

ASTM C672 Scaling resistance		
	untreated	Euco-Guard 100
50 cycles	4, moderate to severe	0 to no scaling
125 cycles	5, severe scaling	0 to no scaling

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DIRECTIONS FOR USE

Surface Preparation (New Concrete): Surface should be well cured a minimum of 7 days using water, wet burlap, polyethylene, curing paper, or a dissipating curing compound such as KUREZ DR VOX. The longer the concrete is allowed to cure, the better the sealer performance will be. Surfaces must be free of all dirt and debris. All joint sealants and caulks should be in place before applying EUCO-GUARD 100.

Surface Preparation (Old Concrete): Remove all foreign substances that could prevent absorption-dirt, dust, tar, oil, etc. Pressure wash with water and cleaners where appropriate. Membranes of any kind must be removed.

Mixing: EUCO-GUARD 100 is a one component material which requires no pre-blending prior to use. The product should be used directly from the container.

Placement: Horizontal Surfaces - Flood surface using low pressure, non-atomizing, airless sprayer, roller, brush or broom. Broom or squeegee material around for even distribution. Let the surface absorb the EUCO-GUARD 100 solution and follow immediately with a second application before the surface dries. Redistribute any puddles or free-standing EUCO-GUARD 100. **Vertical Surfaces** - Apply by low pressure, non-atomizing, airless sprayer, roller or brush in two applications from the bottom up. Be sure to apply "wet-on-wet" as described for horizontal surfaces. To apply the sealer to concrete, use a pump-up or airless sprayer for best results. A short nap roller or lambswool applicator may also be used.

PRECAUTIONS/LIMITATIONS

- Keep EUCO-GUARD 100 away from open flames, sparks, or other sources of ignition
- EUCO-GUARD 100 is a solvent-based product with a distinct odor. When used in enclosed areas or on extremely porous substrates, the solvent odor may dissipate slowly. If HVAC intake ducts will distribute solvent odor into adjoining occupied areas of the building, care should be taken to block these ventilation vents. If solvent odor is unacceptable, use a water-based product such as BARACADE WB 244.
- Do not dilute EUCO-GUARD 100 with solvents or thinners.
- Protect metal, glass and other surfaces from overspray.
- Do not use at temperatures below 40 °F (4 °C).
- Do not use over water saturated surfaces or curing membranes.
- All joint sealants and caulks should be in place before applying EUCO-GUARD 100.
- Do not allow to puddle. All product should penetrate the substrate with no surface build-up.
- Do not apply if rain is expected within 8 hours.
- This product does not prevent oil stains or discoloration from fallen tree leaves.
- A small (6' x 6') test area is strongly recommended prior to starting full application, in order to ensure desired performance results, aesthetics, and coverage rates. Allow 5 to 7 days for product to fully react before evaluating.
- In all cases, consult the Safety Data Sheet before use.

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