



EUCO-GUARD 100

SILOXANE-BASED WATER AND CHLORIDE REPELLENT FOR CONCRETE & MASONRY

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.

PRIMARY APPLICATIONS

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

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

TECHNICAL INFORMATION

Typical Engineering Data: The following results were developed under laboratory conditions.

Drying Time

Foot traffic 4 to 6 hrs

Wheel traffic.....10 to 12 hrs

Type siloxane

Flash point..... 41°C

Solids Content:.....10%

VOC.....730 g/L

Solvent mineral spirits

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.

Test Specimens NCHRP 244 Series IV @ 21days

27.6 MPa, 76 mm x 152 mm cylinders

5.25% air entrainment, 15% NaCl solution

Type	% Weight gain	Chloride screened	Repellency factor
Untreated	2.802%	—	—
Euco-Guard 100	0.212%	96%	92%

Test Specimens	ASTM C 642 Water absorption 24 hour results	ASTM C 672 Scaling resistance

	% weight gain	water repellency factor	50 cycles	125 cycles
Untreated	4.85%	---	4 moderate to severe scaling	5 severe scaling
Euco-Guard 100	0.364%	92%	0 to no scaling	0 to no scaling

PACKAGING

Euco-Guard 100 is packaged in 200L drums, 20L carboys.

SHELF LIFE

2 years in original, unopened bag

SPECIFICATION/COMPLIANCES

EUCO-GUARD 100 will function as a 96% chloride screen when tested by NCHRP 244 criteria for Northern and Southern exposure.

COVERAGE

Concrete Surface

Troweled smooth

Broomed textured

Application Rate

3.1 to 3.7 m²/L

1.8 to 3.1 m²/L

Material Requirements: A one coat application using a coverage rate of 3.1 m²/L will require approximately 30.3 L of material per 92.9 m² of area. For exterior concrete with a textured finish, a coverage rate of 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.

DIRECTIONS FOR USE

Surface Preparation (New Concrete): Surface should be well cured using water, wet burlap, polyethylene, curing paper, or a dissipating curing compound such as KUREZ DR VOX. 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 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 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.

CLEAN UP

Use mineral spirits or acetone to clean tools and equipment.

PRECAUTIONS / LIMITATIONS

- 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 ventilationvents. If solvent odor is unacceptable, use a water-based product such as BARCADE 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 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.
- In all cases, consult the Safety Data Sheet before use.

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