



EUUCO-GUARD 100

SILOXANE-BASED WATER AND CHLORIDE REPELLENT FOR CONCRETE & MASONRY

EUCLID CHEMICAL

DESCRIPTION

EUUCO-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. **EUUCO-GUARD 100** reacts chemically with the concrete to provide a highly effective chloride screen and water barrier. In addition to its ease of application, **EUUCO-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 hours
 Wheel traffic 10 to 12 hours

Type Siloxane

Flash point 41°C

Solids content 10%

VOC 730 g/L

Solvent Mineral spirits

Appearance: **EUUCO-GUARD 100** is a clear, solvent based material. After placement and drying, the product has virtually no effect on the appearance of dry concrete. **EUUCO-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 hr results		ASTM C 672 Scaling resistance	
	% Weight gain	Water repellency factor	50 cycles	125 cycles
Untreated	4.85%	-	4 moderate to severe	5 severe scaling
Euco-Guard 100	0.364%	92%	0 to no scaling	0 to no scaling

PACKAGING

EUUCO-GUARD 100 is packaged in 20 L pails and 200 L drums.

SHELF LIFE

2 years in original, unopened package

COVERAGE

Concrete Surface	Application Rate
Trowelled Smooth	3.1 to 3.7 m ² /L
Broomed Texture	1.8 to 3.1 m ² /L

Material Requirements: A one coat application using a coverage rate of 3.1 m²/L will require approximately 32.6L of material for 100m² 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.
- 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.

Rev: 30/06/20