



# THE EUCLID CHEMICAL COMPANY

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## EUCO-GUARD 100



### WEATHERPROOFING SILOXANE SEALER

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**EUCO-GUARD 100** is a deep penetrating liquid 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. If a higher solids material is required, use EUCO-GUARD 200 (20% solids).

#### 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, cured concrete or old concrete
- Extremely high alkali resistance
- Dries to tack-free and skid-resistant surface
- 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
- Retards deterioration of existing, distressed structures

#### TECHNICAL INFORMATION

##### Typical Engineering Data

The following results were developed under laboratory conditions.

##### Drying Time:

for foot traffic: ..... @ 4-6 hrs  
for wheel traffic: .. @ 10-12 hrs

**Type:** siloxane

**Flash Point:** .... 112°F (44°C)

**EUCO-GUARD 100:** 10% solids

**EUCO-GUARD 200:** 20% solids

**Solvent:** mineral spirits

**Shelf life:** 2 years in original, unopened package.

**Test Specimens**                      **NCHRP #244 Test Method 4000**  
**psi (27.6 MPa) 3"(76mm) x 6"(152mm) cylinders, 5.25%**  
**air entrainment 15% NaCl solution, 21 day results**

% weight	chloride gain	repellency screened	factor
plain (untreated)	2.802%	---	---
Euco-Guard 100 (treated)	0.212%	96%	92%

**Test Specimens**                      **ASTM C642**                      **ASTM C672,**  
**4000 psi (27.6 MPa) Water Absorption**                      **Scaling**  
**5.25% air entrainment 24 hour results**                      **Resistance**

% weight gain	water repellency factor	50 cycles	125 cycle
plain (untreated)	4.85%	—	4
	moderate to severe scaling	severe scaling	severe scaling
Euco-Guard 100 (treated)	0.364%	92%	0-no scaling
			0-no scaling

Contact The Euclid Chemical Company for additional test data for Northern and Southern exposure test per NCHRP #244 method.

##### 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.

## **SPECIFICATIONS/COMPLIANCES**

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

## **PACKAGING**

EUCO-GUARD 100 and EUCO-GUARD 200 are packaged in 55 gal (208 liter) drums and 5 gal (18.9 liter) pails.

## **COVERAGE**

### **Concrete Surface**      **Application Rate**

Troweled Smooth      125-150 ft<sup>2</sup>/gal (3.1-3.7 m<sup>2</sup>/liter)

Broomed Textured      75-125 ft<sup>2</sup>/gal (1.8-3.1 m<sup>2</sup>/liter)

Exact coverage rates are a function of surface porosity and density. For exterior concrete with a textured finish, a coverage rate of 75 to 125 ft<sup>2</sup>/gal (1.8 to 3.1 m<sup>2</sup>/liter) is required to achieve NCHRP #244 results. Higher coverage rates may be used depending on surface porosity and desired level of protection.

**Material Requirements-**A one coat application using a coverage rate of 125 ft<sup>2</sup>/gal (3.1 m<sup>2</sup>/liter) will require approximately 8 gal (30.3 liter) of material per 1000 ft<sup>2</sup> (92.9 m<sup>2</sup>) of area.

## **DIRECTIONS FOR USE**

### **Surface Preparation:**

**New Concrete-**Surface should be well cured using water, wet burlap, polyethylene or curing paper. Surfaces must be free of all dirt and debris. All joint sealants and caulks should be in place before applying EUCO-GUARD 100.

Where a curing membrane is required or desired for curing, only KUREZ DR VOX dissipating resin curing compound applied at 450 ft<sup>2</sup>/gal (11 m<sup>2</sup>/liter) is permitted. When using KUREZ DR VOX, a high pressure water blast or clean-up with an aggressive scrubber is required at 45 days or longer after application of KUREZ DR VOX. The concrete surface should be dry for at least 24 hours for maximum penetration and best results.

**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.

## **Placement**

**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 lambs wool applicator may also be used.

## **CLEAN-UP**

Use mineral spirits, xylene or EUCO SOLVENT to clean tools and equipment.

## **PRECAUTIONS/LIMITATIONS**

- Use in a well ventilated area.
- Do not dilute EUCO-GUARD 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 saturated surfaces or curing membranes.
- Block all HVAC ventilation ducts which may distribute solvent odor.
- All joint sealants and caulks should be in place before applying EUCO-GUARD.
- When a curing compound is required use only KUREZ DR VOX dissipating resin curing compound.



Form Euco-Guard 100-5.01

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