



# THE EUCLID CHEMICAL COMPANY

19218 REDWOOD ROAD • Cleveland, OH 44110  
(216) 531-9222 • (800) 321-7628 • FAX (216) 531-9596  
www.euclidchemical.com

# EUCO-GUARD VOX



## V.O.C. COMPLIANT CONCRETE DECK SEALER

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**EUCO-GUARD VOX** is a V.O.C. compliant deep penetrating liquid sealer designed to protect concrete surfaces, decks, pavements and surfaces against adverse effects of deicing salts, moisture, weathering and freeze damage. EUCO-GUARD VOX reacts chemically with the concrete to provide a highly effective chloride screen and water barrier. EUCO-GUARD VOX is provided as a concentrate which is easily mixed with potable water at the job site and applied to both new and old concrete surfaces.

### PRIMARY APPLICATIONS

- Parking structures
- Highways
- Lane barriers
- Bridges
- Ramps
- Marine platforms
- Auto/truck repair bays
- Driveways and sidewalks
- Interior/exterior concrete
- Seals brick and masonry

### FEATURES / BENEFITS

- V.O.C. compliant
- Provides an efficient, continuous barrier to chloride ions
- Reacts in pores and capillaries to create a hydrophobic surface which repels water
- May be applied to new, cured concrete or old concrete
- Excellent alkali resistance
- Suitable for use over dry concrete
- Easily job site diluted with potable water for easy application. Diluted material must be used within 3 hours
- Provides a low cost protection system that can extend the life of a structure
- Protects reinforcing steel against the corrosive effects of surface chlorides and surface moisture
- Renders new concrete virtually free of surface scaling
- Decreases the surface absorption of water
- Retards deterioration of existing, distressed structures
- Can be used on vertical surfaces

### TECHNICAL INFORMATION

#### **Typical Engineering Data**

The following results were developed under laboratory conditions.

#### **Drying Time:**

foot traffic: @ 4-6 hrs

wheel traffic: ..... @10-12 hrs

**Type** :100% Siloxane

**V.O.C.** ....318 g/l

**Shelf Life:**1 year in original, unopened package

#### **NCHRP 244 Series II**

	Minimum Requirement	Euco-Guard VOX
% Reduction in Water Absorption	75	80
% Water Vapor Transmission	100	100
% Reduction in Cl Intrusion	75	83

#### **NCHRP 244 Series IV (Southern Exposure)**

	Total CL <sup>-</sup> Content % by wt. of cement	Cl Content % reduction
Control(no sealer)	0.241	---
Euco-Guard VOX	0.011	96.0%

#### **ASTM C-672, Scaling Resistance**

##### **Scale Rating at Cycles**

	10	20	30	40	50
Control(no sealer)	1	3	5	--	--
Euco-Guard VOX	0	0	0	0	0

##### **Scale Rating**

0

1

2

3

4

5

##### **Condition of Surface**

No Scaling

Very Slight Scaling

Slight to Moderate Scaling

Moderate Scaling

Moderate to Severe Scaling

Severe Scaling

#### **Appearance**

When diluted per instructions, EUCO-GUARD VOX is a clear, water-based material. After placement and drying, the product has virtually no effect on the appearance of dry concrete. EUCO-GUARD VOX treated concrete will cause water to 'bead' at the surface.

## **SPECIFICATIONS / COMPLIANCES**

- EUCO-GUARD VOX will function as a 96% chloride screen when tested by NCHRP #244 Series II and Series IV (southern exposure) criteria. Concrete treated with EUCO-GUARD VOX shows excellent scaling resistance when tested per ASTM C 672. Independent test data available upon request.
- Meets all federal and state solvent emissions standards including California Air Regulation Board, New York and New Jersey state requirements.
- This product meets V.O.C. contents in accordance to EPA 40 CFR Part 59 Table I Subpart D for Waterproofing Sealers and Treatments with a maximum V.O.C. content of 600 g/l.

## **COVERAGE (when diluted)**

Troweled Smooth 125-150 ft<sup>2</sup>/gal (3.1-3.7 m<sup>2</sup>/liter)  
Broomed Textured 100-125 ft<sup>2</sup>/gal (2.5-3.1 m<sup>2</sup>/liter)

\*Note: At 125 ft<sup>2</sup>/gal (3.1 m<sup>2</sup>/liter) coverage rate, a concentration of 17.5% or higher is required to meet NCHRP 244 results.

A coverage rate of less than 100 ft<sup>2</sup>/gal (2.5 m<sup>2</sup>/liter) may result in some surface discoloration.

Exact coverage rates are a function of surface porosity and density.

**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> (9.3 m<sup>2</sup>) of area.

## **PACKAGING**

EUCO-GUARD VOX is packaged in 5 gal (18.9 liter) pails, 6/1 gal (3.8 liter) units per case and 4/2 qt (1.9 liter) units per case and is sold as a concentrate that is diluted at the jobsite before application.

1 gal (3.8 L) of concentrate may be diluted as follows:

<b>Final Concentration</b>	<b>Water Added</b>	<b>Total Gallons</b>
10.0%	9.0 gal (34L)	10.0 (38L)
17.5%*	4.7 gal (18L)	5.7 (22L)

5 gal (18.9 L) of concentrate may be diluted as follows:

<b>Final Concentration</b>	<b>Water Added</b>	<b>Total Gallons</b>
10.0%	45.0 gal (171L)	50.0 (190L)
17.5%*	23.5 gal (89L)	28.5 (108L)

## **DIRECTIONS FOR USE**

### **Surface Preparation:**

**New Concrete**-Surfaces should be well cured (28 days minimum) using water, wet burlap, polyethylene or curing paper. Where a curing membrane is required or desired for curing, only KUREZ DR VOX dissipating resin curing compound 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 applica-

tion of 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 VOX. The concrete surface must be dry with no darkening due to moisture.

**Old Concrete**-Remove all foreign substances that could prevent absorption. Pressure wash with water and cleaners where appropriate. The concrete surface must be dry.

**Mixing**-EUCO-GUARD VOX is a one component material which requires no pre-blending prior to dilution. Select the proper dilution required for the particular concentration desired and add the appropriate amount of water to EUCO-GUARD VOX. Blend 1-2 minutes and the material is ready for use. Note: The diluted material must be used within three (3) hours or the product's effectiveness will be significantly reduced.

**Placement**-EUCO-GUARD VOX must be job site diluted and mixed with potable water. Gentle agitation is all that is required for thorough and complete mixing. To apply the diluted 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.

**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 VOX solution and follow immediately with a second application (if required) before the surface dries. Redistribute any puddles or free standing EUCO-GUARD VOX.

**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.

## **CLEAN-UP**

Use soap and water or just water to clean tools and equipment.

## **PRECAUTIONS / LIMITATIONS**

- Flash Point: 69°F(21°C)
- Do not dilute EUCO-GUARD VOX 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.
- Protect containers from direct sunlight.
- Do not store EUCO-GUARD VOX concentrate in open containers.
- Heavy application rates may cause staining.

Form Euco-Guard VOX-9.99

**WARRANTY:** The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for six (6) months from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives, in writing or orally, shall alter this warranty. EUCLID MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Euclid does not authorize anyone on its behalf to make any written or oral statements which in any way alter Euclid's installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid's products for the Buyer's intended purposes.