



# THE EUCLID CHEMICAL COMPANY

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## EUCO-GUARD S-40 (S-20)

### WEATHERPROOFING SILANE SEALER

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**EUCO-GUARD S-40** is a deep penetrating liquid designed to protect concrete structures, decks, pavements and surfaces against the adverse effects of deicing salts, moisture, weathering and freeze damage. EUCO-GUARD S-40 reacts chemically with the concrete surface to provide a highly effective chloride screen and water barrier. In addition to its ease of application, EUCO-GUARD S-40 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, 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: silane

Flash Point: 112°F (44°C)

Shelf life: 2 years in original, unopened package.

Solvent: mineral spirits

##### **Test Specimens NCHRP #244 Test Method**

4,000 psi (28 MPa)            3"(76mm)x6"(152mm) cylinders  
5.25% air entrainment 15% NaCl solution, 21 day results

	% weight gain	chloride screened	repellency factor
plain (untreated)	2.802%	—	—
EUCO-GUARD S-40 (treated)	0.212%	96%	92%

##### **Test Specimens**

4,000 psi (28 MPa)  
5.25% air entrainment

##### **ASTM C 642**

Water Absorption  
24 hour results

	% weight gain	repellency factor
plain (untreated)	4.85%	—
EUCO-GUARD S-40 (treated)	0.364%	92%

##### **Test Specimens**

4,000 psi (28 MPa)  
5.25% air entrainment

##### **ASTM C672,**

Scaling  
Resistance

	50 cycles	125 cycles
plain (untreated)	4	5
EUCO-GUARD S-40 (treated)	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 S-40 is a clear, solvent based material. After placement and drying, the product has virtually no effect on the appearance of dry concrete. EUCO-GUARD S-40 treated concrete will cause water to "bead" at the surface.

### **COVERAGE**

<b>Concrete Surface</b>	<b>Application Rate</b>
Troweled Smooth	125-159 ft <sup>2</sup> /gal (3.1-3.6 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 8.0 gal (30.3 liter) of material per 1000 ft<sup>2</sup> (93 m<sup>2</sup>) of area.

### **PACKAGING**

EUCO-GUARD S-40 is packaged in 55 gal (208 liter) drums and 5 gal (18.9 liter) pails.

### **DIRECTIONS FOR USE**

**Surface Preparation-**Where curing membrane is required or desired for curing, only KUREZ DR VOX dissipating resin curing compound is permitted.

**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 S-40. 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 S-40 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 S-40 solution and follow immediately with a second application before the surface dries. Redistribute any puddles or free-standing EUCO-GUARD S-40.

### **Placement**

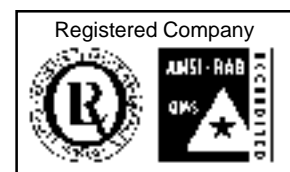
**Vertical Surfaces-**Apply by sprayer, roller or brush in two applications from the bottom up. Be sure to apply "wet-on-wet" as described for horizontal surfaces.

### **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 S-40 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.
- If HVAC intake ducts will distribute solvent odor into adjoining occupied areas of the building, care should be taken to block these ventilation vents.



Form Euco-GuardS-20&40-8.01

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