

## PENETRATING SEALERS & LIQUID DENSIFIERS

Master Format #: 03 35 00

# EUCOSIL

## LIQUID DENSIFIER FOR CONCRETE

Distributed By:  
*The Chas. E.*  
**Phipps**  
Company  
*Products. Equipment. Rentals.*  
866-946-6668  
www.phipps.com



**EUCLID CHEMICAL**

### PACKAGING

5 gal (18.9 L) pail  
Code: 053 05  
55 gal (208 L) drum  
Code: 053 55  
275 gal (1041 L) tote  
Code: 053 27 (MTO)

### APPROXIMATE COVERAGE

One gallon of EUCOSIL will cover 150 to 600 ft<sup>2</sup>/gal (14 to 56 m<sup>2</sup>/L) of steel troweled concrete depending on the surface porosity and texture. Further detail below.

### CLEAN UP

Clean brushes, tools, equipment and flush sprayer with potable water immediately after use.

### SHELF LIFE

2 years in original, unopened package

### SPECIFICATIONS AND COMPLIANCES

- Canadian Food Inspection Agency

### DESCRIPTION

EUCOSIL is a water-based sodium silicate solution used to densify and dustproof concrete. EUCOSIL chemically reacts within concrete and becomes an integral part of the surface, making treated concrete denser and easier to maintain.

### PRODUCT CHARACTERISTICS

#### FEATURES/BENEFITS

- Seals, densifies and dustproofs in one operation
- Water based, no odor
- Treated concrete resists penetration of water
- Can be tiled over
- Low VOC, ≤ 5 g/L

#### PRIMARY APPLICATIONS

- Interior or exterior horizontal concrete
- Educational and medical facilities
- Office and multi-residential buildings
- Warehouse floors
- Food storage areas
- Diamond polishing concrete

#### APPEARANCE

EUCOSIL is a clear liquid that does not change the appearance of concrete. Immediately after application, the color of the concrete may appear darker. As the EUCOSIL cures and dries out, the treated concrete will have a nearly unaffected appearance. Treated concrete will slightly bead water.

### APPLICATION PROPERTIES

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

Foot traffic: 4 to 6 hours  
Wheel traffic: 24 hours  
VOC content: ≤ 5 g/L

### COVERAGE

1 gal (3.8 L) of EUCOSIL will cover from 150 to 600 ft<sup>2</sup> (14 to 56 m<sup>2</sup>) of concrete surface depending upon the porosity of the concrete and job requirements. The following rates of coverage are approximate:

ft <sup>2</sup> /gal (m <sup>2</sup> /L)	Rough finish	Finely textured	Hard troweled
Newly cured bare concrete	200 (4.9)	300 (7.4)	400 (9.8)
Floors to be tiled	500 (12.3)	N/A	N/A
Dusting concrete or terrazzo	300 (7.4)	500 (12.3)	N/A

Additional coats: After initial coat, additional coats may be required to seal the surface. The coverage will increase with each additional coat.

---

## DIRECTIONS FOR USE

**Surface Preparation (Newly Placed Concrete):** Cure the concrete by a wet or sheet cure method in accordance with ASTM C171, or with a curing compound such as KUREZ DR VOX. New concrete should cure seven days or longer before application of EUCOSIL. For fast track projects, the wet cure time may be reduced at the discretion of the project engineer. Remove the curing method, including any laitance formed on the surface, and allow concrete to air dry a minimum of 24 hours prior to application of EUCOSIL. **If a curing compound is used, it must be fully removed before applying EUCOSIL.** Failure to follow these preparation steps will prevent full penetration of EUCOSIL, drastically reducing its effectiveness.

**Surface Preparation (Existing/Older Concrete):** Concrete that is already in service or older floors must be clean and free of any materials that could prevent penetration of EUCOSIL, such as curing compounds or cure & seals, paints, coatings, dirt/oil, waxes, etc. If necessary, use EUCO CLEAN & STRIP to remove these contaminants before applying EUCOSIL.

**Mixing:** EUCOSIL is ready to use and requires no pre-mixing.

**Placement:** Apply EUCOSIL to a concrete surface in a continuous film. Scrub the EUCOSIL into the concrete and brush out all puddles and runs immediately. All of the EUCOSIL should soak into the concrete. Additional coats may be applied if the concrete surface is absorptive, but **do not allow excess EUCOSIL to dry on the surface.** If subsequent coats do not appear to be soaking in, immediately stop application and vacuum/squeegee excess EUCOSIL from the surface.

---

## PRECAUTIONS/LIMITATIONS

- Protect EUCOSIL from freezing. In the event of freezing, thaw and stir or agitate before using.
- Protect metal, glass, wood, paint or brick from contact with EUCOSIL. If accidentally oversprayed on these surfaces, wash surface with clean water immediately.
- If added abrasion resistance is required in new construction, consider the use of a dry shake floor hardener. See SURFLEX, EUCO-PLATE HD or DIAMOND-PLATE data sheets.
- Allow the product to dry 4 to 6 hours at 70 °F (21 °C) before exposure to foot traffic or rain.
- **If excess EUCOSIL is left on the concrete surface, a white residue may form and should be removed by scrubbing immediately. If this residue is allowed to dry, removal of the white discoloration may require mechanical means, such as grinding or sanding.**
- In all cases, consult the Safety Data Sheet before use.

Rev. 01.22

---

**WARRANTY:** The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year 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.