



EUCLID CHEMICAL

# EUCOSIL

## LIQUID DENSIFIER FOR CONCRETE

### 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.

### PRIMARY APPLICATIONS

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

### 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
- ♻️ Can contribute to LEED points

### TECHNICAL INFORMATION

#### Typical Engineering Data

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

Application	Cure Time
Foot traffic .....	4 to 6 hours
Wheel traffic.....	24 hours
VOC content .....	≤5 g/L

**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.

### PACKAGING

EUCOSIL is packaged in 55 gal (208 L) drums and 5 gal (18.9 L) pails.

### SHELF LIFE

2 years in original, unopened container

### SPECIFICATIONS/COMPLIANCES

Canadian Food Inspection Agency

### 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:** The concrete surface must be clean, dry and free of any contaminant or coating which may interfere with the penetration of EUCOSIL. EUCOSIL is not a curing compound and should only be applied to concrete that has been cured with an industry accepted method, such as wet curing, sheet curing, or application of a curing compound. If a curing compound has been used, it must be completely removed 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.

## CLEAN-UP

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

## 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.

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