



# ZeraMite™ DC Plus

## Breathable Non-Slip Waterborne Epoxy Deck Coating

### DESCRIPTION

ZeraMite™ DC Plus is a fast-setting, non-slip, two-component traffic deck waterborne epoxy coating. It has the best concrete adhesion, abrasion & scratch resistance over any waterborne epoxy products in the market. It is specially formulated, based on a cutting-edge technology, to create a unique microporous coating that is breathable and water vapor permeable, preventing delamination and blistering.

ZeraMite™ DC Plus is a self-priming, high solids coating, that is applied over a prepared concrete surface in a two or three coat application (4 mils dry film thickness each) with the ability to hide imperfections. It provides an attractive, uniform, and durable non-slip barrier that is able to protect the concrete slab from freeze-thaw, rain and snow.

ZeraMite™ DC Plus can be applied on a damp or relatively fresh (14 days old) concrete. It is based on our unique, fast-setting, advanced waterborne technology. This means that floors can be coated and returned to service quickly.

### WHERE TO USE

ZeraMite™ DC Plus is primarily designed for waterproofing slab-on-grade for low or medium traffic parking garage decks in condominium and apartment buildings.

### BENEFITS

- Odorless, safe, non-toxic and has a low VOC
- No induction; just mix and apply
- Excellent hiding capacity of imperfections on concrete floors
- Uniform non-slip finish; offers great resistance to slippage and is easy to walk on
- Adheres firmly to a properly prepared concrete slab, thus generating a long-lasting bond
- Excellent adhesion to damp concrete or fresh concrete (7 days cure)
- Very good wearing properties
- Impervious to water and/or chloride penetration
- High permeability; 100 times greater than solvent-

- based or 100% solids epoxy coatings
- Fast drying with rapid release of water
- Can be re-coated in 5 hours, thus saving time
- Hot tire pick-up resistance
- Non-yellowing and stain resistant
- Contains an anti-mildew additive
- Resistant to water, oil, caustic and common chemicals
- Easily repaired if damaged
- Easy cleanup process for tools with only water

### HANDLING PROPERTIES @ 23°C (74°F)

Mix Ratio, by volume.....	3 Part A: 1 Part B
Viscosity (Mixed) Colored.....	8 000 cps (thixotropic)
Solids Content for Colored (by volume) .....	60%
(by weight).....	70%
Pot Life.....	1 hour
Mixed Weight (Density)...	1.47 kg/litre (12.2 lb./US gal)
Optimal Application Temperatures...	10-30°C (54-86°F)
Thin Film Set Time (Re-coat if Required) .....	5 hours
Foot Traffic .....	5-6 hours
Full Cure.....	7 days
Colour.....	Steel Grey

### DATA – Cured Film

Pull Out Tensile Adhesion, (to epoxy coating) (ASTM D4541) .....	4.5 MPa (640 psi)
Abrasion Resistance (ASTM D4060) .....	64 mg loss (Taber Abrasion, CS-17 Wheel, 1000 Cycles)
<i>All tests are conducted after 7 days cure @ 23 °C (74 °F)</i>	

### SURFACE PREPARATION

New concrete must be cured for a minimum of 7 days before applying ZeraMite™ DC Plus. The temperature during the application is 18°C or higher to allow for water evaporation from the coating. The substrate must be free of all dirt, waxes, moisture and previously applied coatings, oil, grease, laitance and any other foreign matter that may interfere with the bonding of the coating to the substrate. Cracks and surface defects should be repaired prior to the application of the coating. Concrete surfaces to be coated should be shot blasted or mechanically abraded (either grinded or sanded with a 25 grits

sandpaper) to provide a clean tooth for adhesion to concrete surface.

### **MIXING**

The mixing equipment used to mix the coating must be clean and free of any contaminants that may be present in the equipment from previously used products. Precondition the coating at a temperature of 18-25°C (65-77°F) for 16 hours or so before applying it. Mix component A first to eliminate the possibility of settlement. Pour all of the liquid from Part B into Part A. A 'Jiffy Mixer' or a mud mixer blade on a slow speed drill is the preferred method of mixing. Mix the blended components for 2 minutes then apply immediately.

### **APPLICATION**

**NOTE: For Parking Garage Application, two coat application on the entire garage plus third coat on the driving lanes (or ramps) where heavy traffic are.**

Pour a workable amount of the mixed coating directly onto the floor, use notch squeegee to spread out evenly and backroll like paint using either a lint-free 6 mm or 9 mm nap roller, depending on the profile of the concrete; this would allow for uniform finish and eliminate roller marks. Avoid allowing the coating to puddle in a low-lying area, as this may cause the occurrence of softening, lifting and discolorations.

### **LIMITATIONS**

- May slightly discolor upon exposure to direct sunlight for extended periods of time.
- It is not designed for exterior application.
- Do not hand-mix the product; mechanical mixing must be used.
- Do not use a squeegee alone to apply the coating; back-roll to ensure a uniform finish.
- Not recommended for floors subjected to heavy-duty vehicular traffic.
- It takes a longer time to dry (cure) at lower temperatures or at high levels of humidity.
- **Although breathable, excessive moisture problem (underground water table) could cause delamination.**

### **COVERAGE**

4.9 m<sup>2</sup>/L (200 ft<sup>2</sup>/U.S. gallon), depending on the porosity of the concrete substrate

### **PACKAGING**

15.2 L (4 U.S. gal) unit

### **CLEAN UP**

Clean all equipment with potable water prior to material set.

### **STORAGE**

Protect from freezing. Store under normal heated warehouse conditions. If frozen, discard.

### **SHELF LIFE**

6 months in original unopened container under normal heated warehouse conditions.

### **SAFETY PRECAUTIONS**

Consult Material Safety Data Sheet (MSDS) for specific instructions.

### **WARRANTY**

"The recommendations made and the information herein is the result of accurate laboratory and field tests under controlled conditions. We guarantee that the quality and properties of the materials supplied conform to our standards. Zeraus Products Inc. makes no warranties, expressed or implied, as uses and applications are beyond our control. Zeraus Products Inc. shall not be liable for any injury, loss, or damage (direct or consequential) arising from use or inability to use the products. Before using, the user is urged to pre-test the products in his/her own environment to determine the suitability of the products for their intended use, and the user assumes all risk and liability whatsoever in connection therewith.

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