

# ZeraPrime™ 95DS

## Damp Surfaces Epoxy Concrete Primer



### DESCRIPTION

ZeraPrime™ 95DS is a highly advanced, two-component, epoxy primer with outstanding mechanical and handling properties. It adheres well to damp or otherwise marginally prepared concrete surfaces as well as partially contaminated oily surfaces. It cures as low as 5°C (41°F) with no blush or exudation even under high humidity or under adverse condition.

ZeraPrime™ 95DS allows for early installation of moisture sensitive floor systems over freshly poured concrete (7 days), thus saving time on new construction projects.

### WHERE TO USE

- Institutional buildings
- Industrial warehouses
- Recreational complexes
- Storage and logistic areas
- Wet and dry processing areas

### BENEFITS

- Adheres firmly to green (7 days old), damp and dry concrete
- Bonds to marginally prepared or otherwise hard to adhere to concrete slabs
- Adheres to slightly contaminated oily surfaces
- Cures at as low of a temperature as 5°C (41°F)
- Excellent ability in sealing concrete floor, minimizing or eliminating out-gassing
- Low permeability that prevents osmotic blistering
- High solids (95%) with very low odor
- Fast setting time for quick turnaround projects
- Easy to apply, low viscosity for maximum penetration
- Cures under high humidity and adverse conditions with no blushing or exudation
- Excellent film appearance

### HANDLING PROPERTIES @ 23°C (74°F)

Mixing Ratio, by volume .....	2 parts A: 1 part B
Viscosity (mixed).....	500 cps
Solids Content.....	95%
Density (mixed) .....	1.16 kg/litre (9.66 lb./US gal)
Pot Life .....	30 minutes
Minimum Application Temperature.....	5°C (41°F)
Foot Traffic/ Re-coat.....	6-8 hours
Vehicular/Forklift Traffic.....	24 hours
Full Cure and Maximum Resistance .....	7 days
Color .....	Stone Grey

### DATA – Cured Film 7 days @ 23°C (74°F)/50% RH

Pull Out Tensile Adhesion (to concrete) .....	>500 psi
(ASTM D4541).....	(concrete failure)
Intercoat Adhesion (to itself) .....	>500 psi
(ASTM D4541).....	(concrete failure)

### SURFACE PREPARATION

New concrete must be cured for a minimum of 7 days before applying ZeraPrime™ 95DS. The substrate must be above 5°C (41°F) and must be dry or damp, free of all dirt, waxes, previously applied coatings, oil, grease, laitance and any foreign matter that may interfere with the bond of the coating to the substrate. The most effective way for the preparation of the floor is to use a shot-blasting technique, or another means of mechanical abrasion to ensure a thorough and deep profile for adhesion. Alternatively, an acid-etching technique can be used, provided that care is taken regarding the safe handling of the acid and avoiding contamination of the adjacent surfaces. If acid etching is the method of choice for preparation of the concrete surface, the etched surface must be thoroughly flushed, neutralized and dried prior to the application of the coating (see procedures below).

#### Removing Oil & Grease:

Pour a quality commercial de-greaser or Trisodium Phosphate (TSP) on the stain. Let the detergent sit for 45 minutes, then pour boiling water on the area and vigorously scrub the stain section with the broom. Conduct

the “water test”. Mist water over the stain and if the water beads, repeat the same treatment again.

## OFF-GASSING

The off-gassing is not a by-product of **ZeraPrime™ 95DS**, but of the displacement of air in the concrete. It depends on the density/PSI (compressive strength of the concrete); the lower the psi and/or water added to the concrete during pouring, the more off-gassing in the concrete. If the concrete is spongy or very porous, it is recommended to apply the primer very thin with a flat squeegee and pull it tight to the surface with a flat squeegee. Adding 2% of **ZeraSolv** would facilitate the penetration and help reduce the problem.

## APPLICATION

**ZeraPrime™ 95DS** is applied at a coverage rate of 350 sq.ft. per U.S. gallon (4 mils dft). The mixing equipment used to mix the coating must be clean and free of any contaminants from previously used products.

- Premix component “A” of **ZeraPrime™ 95DS** first to eliminate the possibility of settlement. Pour all of the liquid from Part B into a Part A container.
- Mix thoroughly using a slow speed drill equipped with a mixing blade for one minute until the colour is uniform.
- Immediately pour some of the mixed material onto the edges of the prepared floor and spread the material evenly with a flat squeegee (use a notch squeegee for the topcoat). Using a lint free 6 mm nap roller, back roll the applied material to provide an even coat. Care should be taken not to over-roll the material as air may become entrapped in the coating.

## LIMITATIONS

- **ZeraPrime™ 95DS** is NOT designed to be used as moisture control barrier system to suppress the moisture level prior to the application of epoxy topcoat.
- If **ZeraPrime™ 95DS** is used on a 7-day old concrete, the primer should not be over coated with non-breathable impervious epoxy coating until the water level of the concrete is no longer a concern.
- Oily surfaces must be cleaned thoroughly with an effective commercial de-greaser according to industry standards to minimize any adhesion issue. **ZeraPrime™ 95DS** would perform far better on slightly contaminated well-prepared surface than

any other epoxy coatings. However, to pre-test the area for adhesion is a **MUST**.

## COVERAGE

325 ft<sup>2</sup>/U.S. gallon (4 mils dft), depending on the film thickness applied and porosity of the concrete.

## PACKAGING

11 litre/ (2.9 U.S. gal.) units  
56.7L litre/ (15 U.S. gal.) units

## CLEAN UP

Clean all equipment and installation tools immediately after use with xylene.

## STORAGE

Store in a heated warehouse.

## SHELF LIFE

Two years from the date of manufacture if kept in original unopened containers under normal heated warehouse conditions.

## SAFETY PRECAUTIONS

Read Material Safety Data Sheet (MSDS) prior to use.

## WARRANTY

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