

ZeraDur™ 99 Plus

Self-Primed 100% Solids Epoxy Coating



DESCRIPTION

ZeraDur™ 99 Plus is a two-component, 100% solids, epoxy floor coating that is designed to be applied over a well-prepared smooth concrete surface in a **one-coat application**, thus saving time and money.

ZeraDur™ 99 Plus is a high-performance industrial-grade coating that is offered in oyster grey color. It offers a unique combination of ease of application, attractive appearance, toughness, and durability.

As a thin coat, ZeraDur 99Plus produces a slightly orange-peel finish. However, for the optimal result, it is recommended to be used in combination with Zeraus Non-Slip additives to generate a highly attractive non-slip finish.

WHERE TO USE

ZeraDur™ 99 Plus is recommended for use in a wide range of applications from industrial warehouses to commercial facilities.

BENEFITS

- 100% solids; no odor; zero VOC's
- Excellent hiding at a single coat application
- Ideally for low-budget fast-turnaround projects
- No induction time is required; just mix and apply
- An aesthetic high gloss seamless coating
- A non-slip additive can be added directly to the pail during mixing, producing more of a uniform finish
- Excellent toughness and durability

HANDLING PROPERTIES @ 23°C (74°F)

Mix Ratio, by volume 4 parts A:1 part B
Viscosity (Mixed), Coloured..... 1000 cps
Solids Content..... 100 %
Specific Gravity 1.19 kg/litre (9.9 lb./US gal)
Pot Life (Working time)30 mins
Vehicular/Forklift Traffic24 hours
Full Cure and Maximum Resistance..... 7 days

SURFACE PREPARATION

New concrete must be cured for a minimum of 28 days before applying ZeraDur™ 99 Plus. The substrate must be above 12°C (54°F) and must be dry, 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 preparing the floor is to use a shot-blasting technique, or another means of mechanical abrasion to ensure a thorough profile for adhesion. Alternatively, an acid-etching technique can be used, providing 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 the preparation of the concrete surface, the etched surface must be thoroughly flushed, neutralized, and dried prior to application of the coating (see procedures below).

Removing Oil & Grease:

- Pour a quality commercial degreaser 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.

Removing Painted Surfaces:

- Latex paints, oil-based paints or sealers must be removed using grinding or other mechanical means. Over a sound old epoxy coating, the surface must be sanded to ensure good adhesion.

AREA PREPARATION

For optimal performance, both the coating and substrate should be maintained at 18 to 30°C (68 to 86°F) for 24 hours prior to beginning work. The same temperature range should be maintained during mixing, application, and cure. Application in direct sunlight and rising surface temperatures may result in blistering of materials due to expansion of entrapped air or moisture in the substrate. Concrete that has been in direct sunlight must be shaded 24 hours prior to application and remain shaded until after the initial set.

APPLICATION

Note: ZeraDur™ 99 Plus is designed to be used in a one-coat application. To do so the concrete area must be prepared properly to a smooth surface. If there is an old sound epoxy floor, the floor must be sanded with 80-100 grits to ensure good inter-coat adhesion. This coating is not designed for very rough or errored concrete surfaces.

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.

- Premix component “A” of **ZeraDur™ 99 Plus** 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 color is uniform. If a non-slip finish is required, add the non-slip additive (purchased separately, 450g bag per 5-gallon unit) into the mixed material and disperse for at least another two minutes. Make sure to scrape the side into the coating.
- Immediately pour some of the mixed material onto the edges of the prepared floor and spread the material evenly with a flat squeegee (and a notched squeegee for topcoat). Using a lint-free 6 mm nap roller back roll the applied material provides an even coat. Care should be taken not to over-roll the material as air may become entrapped in the coating, thus creating air bubbles.
- If a smoother finish is needed, do not use a “non-slip additive”. Otherwise, follow the same procedures described above.
- Allow the topcoat to cure thoroughly for 24 hours @ 23°C/74°F for foot traffic, and 3 days for forklift traffic. It takes 7 days to achieve a full cure. Keep water, cleaners, and another liquid spillage away from the coating for at least one week.

LIMITATIONS

- Do not apply **ZeraDur™ 99 Plus** if the substrate and ambient temperatures are below 18°C (68°F).
- Do not apply on untreated floors; the concrete must be prepared by shot-blasting or an equivalent technique, or acid etched for proper adhesion.

- **ZeraDur™ 99 Plus** must only be used over smooth well prepared concrete floor. It is not designed for bad or eroded concrete as it is a thin film that will not be able to fill the holes and pits as opposed to other standard two-coat applications.
- **ZeraDur™ 99** does not have water-spot resistance, meaning if washed with water the gloss will drop to a satin-finish (40-degree gloss)
- Not recommended for exterior applications.
- Not recommended for areas subject to steam cleaning
- Do not subject the coating to water, cleaners, or chemicals for 7 days after the application.
- Do not use over an existing floor without testing both the inter-coat adhesion as well as the adhesion of the existing floor to concrete.
- The product has a slight “orange peel” finish if applied without the non-slip additive.
- Do not apply the coating more than 7 mils thickness.

Disclaimer: Although ZeraDur™ 99 can be made non-slip using the above-described technique, floors may become slippery under certain conditions. Therefore, it is your own responsibility to determine the level and type of slip resistance that suits your specific needs. We recommend the use of additional slip-resistant aggregates on your floor if it will be exposed to wet, icy, or oily conditions.

PACKAGING

Available only in 18.9L (5 U.S. gal.) units for both colors and clear.

COVERAGE

225-250 ft²/U.S. gallon per coat, depending on the film thickness applied and porosity of the concrete.

CLEAN UP

Clean all equipment and installation tools immediately with xylene.

SAFETY PRECAUTION

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

STORAGE

Store in a heated warehouse. Do not freeze.

SHELF LIFE

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

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 the use or inability to use the products. Before using, the user has 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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