



ZeraDur™ 102 UL

UV-Resilient Epoxy Floor Coating

DESCRIPTION

ZeraDur™ 102UL is an advanced, two-component, 100% solids epoxy coating. Available in a wide range of standard colours, it provides an aesthetically pleasing high gloss showroom quality finish.

ZeraDur™ 102UL is an UV-resilient epoxy coating. It has been formulated for improved UV resistance to reduce yellowing and surface degradation from UV exposure. In the long run, it is not totally weather resistant in fully exposed exterior application, but it is designed to fill the gap between polyaspartic acid (or aliphatic polyurethane) and epoxy coating.

ZeraDur™ 102UL is recommended to be used with an epoxy primer such as ZeraPrime 100FS or ZeraPrime 95DS.

WHERE TO USE

ZeraDur™ 102 UL is recommended for use in areas where high performance combined with highly attractive appearance is the major concern. It is especially suited for dealership showrooms and residential parking garages that may be subjected to intermittent direct sun exposure.

ZeraDur™ 102 UL is ideal for art galleries, studios, retail floors, casinos, furniture stores and variety of other applications where the floor may be subject to indirect sun exposure from large glass windows.

BENEFITS

- 100% solids, with low odor, zero VOC's
- Excellent show-room quality finish
- Resistant to yellowing and staining
- Superior durability and abrasion resistance
- Resistant to water, salts, motor oil and petroleum
- Excellent film appearance and colour fastness
- Excellent water spotting resistance
- Hot tire pick-up resistant
- Contains no nonyl phenol
- Easily cleaned and maintained

HANDLING PROPERTIES @ 23°C (74°F)

Mix Ratio, by volume	2 parts A: 1 part B
Viscosity (Mixed).....	1000 cps
Solids Content	100 %
Mixed Weight (Density)	1.13 kg/litre (9.4 lb./US gal)
Pot Life.....	30 minutes
Thin Film Set Time	12 hours
Light Vehicular Traffic	24 hours
Full Cure and Maximum Resistance	7 days
Hardness (Shore D)	78

SURFACE PREPARATION

ZeraDur™ 102 UL should be applied over clean, sound, dust free surfaces. For best results, surface should be prepared as follows.

Existing Epoxy Floor:

Make sure the floor is clean and free from oil or grease. The floor must be sanded with 80-100 grits to provide profile for adhesion. Ensure that the existing floor is sound and adhered well to the concrete. Epoxy coating would not adhere to alkyd or oil based coated floors.

Concrete (New):

Shot blast or equivalent to remove surface laitance, curing compounds or form oils. Concrete should be minimum 28 days old or have 3% or less moisture content. Moisture content can be determined using the test method ASTM D4263. Prime with ZeraPrime 100FS.

Concrete (Old):

Remove oil, grease, dirt and any unsound concrete using a combination of commercial de-greasers, alkaline wash, shot blasting or diamond grinding. A combination of acid-etching and power wash can also be used. Cracks and surface defects should be repaired prior to the application of coating. Prime with ZeraPrime 95DS.

Steel:

Remove greases, oils and contaminants from surfaces and sandblast to white metals. Prime using ZeraPrime™ 100FS or ZeraPrime™ 95DS.

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.

OFF-GASSING

The off-gassing is not a by-product of the epoxy coating, 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 an epoxy primer.

APPLICATION

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.

Two coats are recommended: one epoxy prime coat (either using **ZeraPrime™ 100FS** or **ZeraPrime™ 95DS**) and one top coat of **ZeraDur™ 102 UL**.

- Pre-mix component “A” of **ZeraDur™ 102 UL** 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 ½ inch drill motor with “jiffy” type blade for two minutes (minimum). Scrape the sides of the container and continue mixing until the color is uniform.
- Immediately pour all mixed coating onto the edges of prepared floor and spread the material evenly with a flat squeegee. 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.
- Apply the second coat in the same manner as the

first (a notched squeegee may be used in the second coat to produce a thicker film).

- If a non-slip sanded surface is required, a properly graded, dry, contaminant free grit should be broadcast on the surface of the top coat and back roll to encapsulate the aggregate onto the coating.
- Allow to cure thoroughly overnight (16 hours) before exposing to foot or light duty traffic. It requires 24 hours for vehicular traffic and 7 days for full service. Keep water & detergent away from the floor until fully cured.

LIMITATIONS

- Do not apply **ZeraDur™ 102 UL** if the substrate and ambient temperatures are below 10°C (50°F).
- Do not apply the topcoat less than 10 mils as an orange peel finish may appear or bubbling may occur due to insufficient material to self-level.
- Do not leave mixed material (Part A & B together) in the container for an extended amount of time; it will harden and warm up and smoke.
- Not recommended for areas subjected to steam cleaning, harsh chemicals or heavy impact.
- Do not use over existing floor without testing both the inter-coat adhesion as well as the adhesion of the existing floor to concrete.
- Never apply the topcoat over tacky or partially wet primer.
- Do not apply in areas where the humidity is greater than 85%.
- Do not use on slab-on-grade without vapor barrier.

COVERAGE

10 mils dft: 4 m²/litre (160 f²/U.S. gallon)

PACKAGING

3.79 litre/1 U.S. gal. units

11 litre/2.9 U.S. gal. units

CLEAN UP

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

SAFETY PRECAUTION

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

STORAGE

Store in a heated warehouse. Do not freeze.

SHELF LIFE

One year from the date of manufacture if kept in original unopened containers in a warm place.

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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