

ZeraKlear™ UL

Ultra-Clear UV Resilient Epoxy Coating

DESCRIPTION

ZeraKlear™ UL is an advanced decorative clear 100% solids epoxy coating. It provides a highly attractive clear, tough, glossy coating which creates a deep, glass-like appearance on any sealed surface.

ZeraKlear™ UL is specially formulated based on colour stable cycloaliphatic amine hardener, as well as state-of-the art UV blocker/stabilizer additives. Together **this provides the highest possible resistance to ultra violet light colour change, loss of gloss or surface degradation over time.**

When considering long term UV stability, ZeraKlear™ UL is not on par with aliphatic urethane, polyaspartic acid coating or acrylic MMA. However, it is the best in its class of high performance epoxy, and in the overall market, in terms of colour stability. Unlike polyaspartic acid, ZeraKlear™ UL can be used in a thicker film up to 20 mils in a one-step application.

WHERE TO USE

ZeraKlear™ UL is recommended for all decorative applications including flakes epoxy flooring, multi-colored quartz and metallic epoxy flooring. It is especially suited for residential parking garages that may be subjected to intermittent direct sun exposure.

BENEFITS

- 100% solids, odourless; zero VOC's
- Superior resistance to long term UV light colour change
- Attractive high gloss, excellent clarity and good color fastness
- Excellent resistance to water-spot and water immersion
- Easily cleaned and maintained

HANDLING PROPERTIES @ 23°C (74°F)

Mixing Ratio, by volume	2 parts A: 1 part B
Viscosity (Mixed)	500 cps
Solids Content.....	100%
Mixed Weight (Density)	1.1 kg/litre (9.14 lb./US gal)
Pot Life (Working Time)	40 mins
Thin Film Set Time/ foot traffic.....	16 hours
Vehicular Traffic.....	24-36 hours
Full Cure & Maximum Resistance.....	7 days
Hardness (Shore D).....	80
Abrasion Resistance.....	81 mg loss

Taber Abrasion, C-17 Wheel, 1000 cycles

SURFACE PREPARATION

The product is designed to be applied over epoxy decorative flooring. If applied within 24 hours, no surface prep is needed provided the floor is clean, firm and smooth. Other than that, the existing epoxy floor must be sanded with 100 grit sandpaper to ensure good adhesion and quality installation.

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

ZeraKlear™ UL is a recommended only as a topcoat over decorative epoxy flooring systems in a one coat 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 prime coat and one top coat). The first coat is applied at 5 mils whereas the second coat is applied at 10 mils.

- Pre-mix at low speed component “A” of ZeraKlear™ UL first to ensure uniformity. 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 coating is uniform.
- Immediately pour all mixed coating onto the edges of the prepared floor and spread the material evenly with a flat squeegee. Use a lint free 6 mm nap roller to back roll the applied material to an even coat. Care should be taken not to over-roll the material as air may become entrapped in the coating.
- 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.

Caution: Do not over mix or mix vigorously to avoid bubble formation, leading to a milky finish. Mix slowly and keep the blade deeper (away) from the surface during the mixing.

Matte or Satin Finish:

We recommend using two coats of high scratch resistant clear waterborne urethane coating, **ZeraTuf™ W-102** or **ZeraTuf™ W-104** over the epoxy to control the gloss and produce a very attractive finish. However, these products are recommended for foot traffic decorative applications such as retail stores and shopping malls, restaurants and bars, showrooms, studios, walkways, offices, and etc.

LIMITATIONS

- Do not apply **ZeraKlear™ UL** if the substrate and ambient temperatures are below 12°C (54°F) or 18°C (65°F) for countertop applications.
- Do not hand-mix **ZeraKlear™ UL**; mechanical-mix only.
- Maximum relative humidity during application and cure is 85%.
- Protect from dampness, condensation and water contact during the initial 24-48-hour cure period.
- Do not use with other standard clear epoxy primers as it may cause discolouration.
- It is not recommended for areas subjected to steam cleaning, harsh chemicals, heavy impact, or high heat.
- Do not apply the topcoat less than 8 mils as an orange peel finish may appear 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, warm up and smoke.
- Do not use over the existing floor without testing both the inter-coat adhesion as well as the adhesion of the existing floor to the concrete.
- Do not thin the **topcoat** with a solvent or thinner.

COVERAGE

@ 10 mil dry film thickness:

4 m²/litre (160 ft²/U.S. gallon)

PACKAGING

3.79 litre (1 U.S. gal.) units

11 litre (2.9 U.S. gal.) kit units

CLEAN UP

Clean all tools and equipment with xylene prior to the material setting.

SAFETY PRECAUTIONS

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

STORAGE

Store in a heated warehouse. Do not freeze.

SHELL LIFE

Two years from the date of manufacture if kept in the 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 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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