



ZeraSeal™ W-50UL

Universal Waterborne Epoxy Sealer

DESCRIPTION

ZeraSeal™ W-50UL is a unique ultra-light clear, two-component universal waterborne epoxy sealer. It is flexible, non-toxic, low in VOC and virtually odourless; it is suitable for both interior and exterior applications.

ZeraSeal™ W-50UL is a versatile product that can be used for a wide variety of applications:

- As a primer for concrete or cementitious floors which demands minimum alteration of the natural shade or appearance of the concrete substrate.
- As an exterior wood sealer. Unlike other water-based epoxies, ZeraSeal™ W-50UL is water-white with superior colour stability relative to solvent-based epoxy. The sealer has excellent flexibility to accommodate the natural expansion and contraction of the wood substrate. It also breathable.
- As a clear topcoat (glaze) over other waterborne epoxy coatings. It has excellent gloss and clarity.

WHERE TO USE

ZeraSeal™ W-50UL is designed primarily as a primer/sealer for decorative prepared concrete or wood substrates. It is compatible with most high-performance finish coatings.

It is recommended for use under clear epoxy or aliphatic urethane coatings for decorative interior and exterior applications. It can also be used for art stones and other similar applications.

BENEFITS

Safe & Easy to Use:

ZeraSeal™ W-50UL is safe, clean and easy to use. It has no odour and contains no volatile solvents, corrosive or hazardous materials. The product is especially suited for use in areas where it is inconvenient or impossible to close down or evacuate, as opposed to other solvent-based primers that contain strong offensive odours or hazardous solvents.

Fast Setting:

ZeraSeal™ W-50UL offers a unique combination of long pot life and fast drying characteristics. It sets in 6 hours, allowing the topcoat to be applied in the same day, saving time and money. It is ideal for quick turnaround projects.

Ultra-Light:

ZeraSeal™ W-50UL has low colour, good colour retention and is resistant to yellowing. It is far superior with regard to UV-resistance to other conventional waterborne epoxy or 100% solids epoxy formulations. It does not affect the all-natural light concrete colour. It has high gloss, stain and water resistance. It is also resistant to food acids and common chemicals.

Excellent Adhesion Properties:

ZeraSeal™ W-50UL exhibits excellent adhesion to hardwood or interior wood floors as well as to dry concrete surface. It has very good flow properties, which makes it easier to penetrate into wood or concrete to enhance adhesion and seal it from outgassing.

Breathable:

ZeraSeal™ W-50UL exhibits excellent barrier properties, maintaining high pore resistance after long term immersion in sodium chloride (salt) solution.

Chemical & Stain Resistance:

ZeraSeal™ W-50UL possesses excellent chemical and stain resistance. It resists food acids, household cleaners, salts, oils, and petroleum.

HANDLING PROPERTIES @ 23°C (74°F)

Mixing Ratio, by volume	2 parts A: 1 part B
Density (Mixed).....	1.06 kg/litre (8.8 lb./US gal.)
Solids	52%
Pot Life	1 hour (plus 20 mins induction)
Re-coat time	6 hours
Full Cure and Maximum Resistance	7 days
Pull-out Adhesion to Prepared Concrete	over 500psi

APPLICATION

NOTE: ZeraSeal™ W-50UL requires 15-20 minutes of induction time (allow to stand for 15-20 minutes) prior to the application for optimal performance.

NOTE: ZeraSeal™ W-50UL is milky when applied but clear over time. It may take longer to dry depending on the relative humidity and temperature during the application.

CONCRETE:

Surface Preparation

New concrete must be cured for a minimum of 28 days before applying ZeraSeal™ W-50UL. The substrate must be above 10°C (50°F) and must be free of all dirt, waxes, previously applied coatings, oil, grease, laitance and any foreign matter that may interfere with the bond of the primer to the prepared substrate. Cracks and surface defects should be repaired prior to the application of the primer. Concrete surfaces to be coated should be shot blast or mechanically cleaned to provide a clean tooth for the primer application. If acid-etching is the method of choice for the preparation of the concrete surface, the etched surface must be thoroughly flushed and dried prior to the application of the primer.

Mixing & Application

The mixing equipment used to mix the primer must be clean and free of any contaminants that may be present in the equipment from previously used products. Mix component A first to eliminate the possibility of settlement. Pour the liquid from Part B into a Part A container. A 'Jiffy Mixer' or a mud mixer on a slow speed drill is the preferred method of mixing. Mix the blended components for a minimum of 2 minutes.

Pour a workable amount of the mixed coating into a paint tray and spread the material evenly with a roller. Apply the material to an even coat using a lint-free 6 mm nap roller. It can also be applied with a brush or spray.

Curing

The finished floor will take normal foot traffic after overnight drying but may remain susceptible to marking by furniture or heavy traffic until fully cured for 7 days after

application. **Do not cover the coating until fully cured. (minimum 3 days).**

WOOD:

- Ensure the wood is dry and the moisture content in the wood is as low as possible prior to proceeding with application of the sealer.
- The wood substrate must be sanded by 80-100 grits sandpaper. Do not use ZeraSeal™ W-50UL over painted or varnished surfaces. They must be stripped using commercial paint strippers, cleaned and sanded.

LIMITATIONS

- Waterborne epoxy should be applied above 10°C (50°F) and below 80% relative humidity. Good air flow is necessary to assist in water release.
- Very high humidity with poor air circulation would greatly slow water release and drying. This may cause haze or low gloss in the final finish. Avoid this combination.
- It is always recommended to be applied in a thin film to avoid roller marks.
- Apply only to properly prepared surface.
- Efflorescence can develop as a result of migration of water and may lead to adhesion failure or discoloration of the surface.
- The wood must be sanded to bare wood and concrete must be mechanically or chemically abraded prior of applying ZeraSeal™ W-50UL.
- Ensure that water exits the concrete or wood and that the substrate is fully dry prior to the application of epoxy topcoat.
- Avoid application in direct sunlight or in very hot and humid environments; use early in the morning or later in the afternoon.
- Do not spray apply to repair old, cracked and damaged wood; a spray application (in conjunction with a brush application to saturation) is acceptable for large deck applications.
- May slightly discolor under direct sunlight.

COVERAGE

5-7.5 m²/litre (200-300ft²/U.S. gallon)

PACKAGING

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

CLEAN UP

Clean all equipment and installation tools immediately with water.

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 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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