



ZeraPrime™ W-50UL

Clear Ultra Light Waterborne Epoxy Primer/Sealer

DESCRIPTION

ZeraPrime™ W-50UL is a unique ultra light clear two-component waterborne epoxy primer and sealer for concrete and wood. It is flexible, non-toxic, low in VOC and virtually odourless. Unlike other water-based epoxies, **ZeraPrime™ W-50UL** is water-white, colour stable and does not alter the natural colour or appearance of concrete surface. It is suitable for both interior and exterior applications. **ZeraPrime™ W-50UL** is approved by the “Canadian Food Inspection Agency” to be used in food processing facilities

WHERE TO USE

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

Due to its light colour and good colour stability, it is ideal 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. due to excellent flow and penetration properties.

Due to its excellent flow and penetration properties **ZeraPrime™ W-50UL** is recommended as a primer/sealer for interior wood prior to the application of high performance epoxy coatings.

BENEFITS

Safe & Easy to Use:

ZeraPrime™ 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:

ZeraPrime™ W-50UL offers a unique combination of long pot life and fast drying characteristics. It sets in 4-6 hours, allowing the topcoat to be applied in the same day, saving time and money. It is ideal for quick turn around projects.

Ultra Light:

ZeraPrime™ 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 at all the 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:

ZeraPrime™ 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:

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

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 2 hour (plus 20 minutes induction)
Re-coat time 4-6 hours
Full Cure and Maximum Resistance 7 days
Pull-out Adhesion to Prepared Concrete over 500psi

APPLICATION

SURFACE PREPARATION

New concrete must be cured for a minimum of 28 days before applying **ZeraPrime™ 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 preparation of the concrete surface, the etched surface must be thoroughly flushed and dried prior to application of the primer.

MIXING

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.

NOTE: ZeraPrime™ W-50UL requires a 15-20 minute induction period (allow to stand for 15-20 minutes) prior to application for optimal performance.

APPLICATION

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

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

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).**

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.
- 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 ZeraPrime™ W-50UL
- Ensure water exits the concrete or wood and the substrate is fully dry prior to the application of epoxy topcoat.
- For very porous concrete surfaces, a two-coat application of the primer may be necessary to fully seal the concrete from outgassing

COVERAGE

7.5 m²/litre (300ft²/U.S. gallon)

PACKAGING

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

56.7L liter (15 U.S. gal.) units

CLEAN UP

Clean all equipment and installation tools immediately with water.

SAFETY PRECAUTION

Consult the 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.