



## **ZeraFerox™ W**

### ***Universal Waterborne Epoxy Primer & Sealer***

#### **DESCRIPTION**

**ZeraFerox™ W** is a high-performance fast-setting, versatile, two-component, waterborne epoxy concrete primer, and sealer. It is specially formulated based on cutting-edge technology that creates a unique microporous coating that is breathable and is permeable for water vapor, preventing delamination and blistering. Available in clear and silver-grey color, **ZeraFerox™ W** offers durable attractive finishes with excellent adhesion to dry or damp concrete.

#### **WHERE TO USE**

**ZeraFerox™ W** can be used as a damp surface concrete primer for interior or exterior applications. It is ideal as a primer in conjunction with ZeraDur (100% solids epoxy floor coating or waterproofing elastomeric polyurethane). It promotes adhesion to concrete surfaces and allows the concrete to be sealed from outgassing. It can be used on garage floors, slab-on-grade, porches, balcony decks, etc.

It is also suitable as a concrete primer for concrete block walls (asblock filler) to fill surface irregularities on the surface exposed to high humidity or surfaces subjected to moisture condensation areas such as shower rooms, food, and beverage processing plants, and wash bays. It is usually used in conjunction with a waterborne epoxy or urethane wall coating such as **ZeraClad™ W-35** or **ZeraBina™ W-205** (waterborne urethane coatings).

**ZeraFerox™ W** can also be used as a standalone one-coat sealer (thinned with water if needed) or non-slip coating in two-coat application over a prepared concrete floor. It is ideal as a non-slip coating for stairs in high-rise condo buildings.

#### **BENEFITS**

##### Safe & Easy to Use:

**ZeraFerox™ W** is safe, clean, and easy to use. It has no odor 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 odors or hazardous solvents. It provides a more uniform even surface to coat.

##### Excellent Adhesion to Green Concrete:

**ZeraFerox™ W** exhibits excellent adhesion to dry, damp, or green concrete surfaces (7 days cure). It can save time and money by reducing the waiting time of freshly applied concrete from the standard 28 days to 7 days. **ZeraFerox™ W** has the best adhesion to concrete in the market. It can be diluted up to 5% water to be used as an economical concrete sealer.

##### Hot-Tire Pick Up Resistance:

Due to its ability to resist hot-tire pickup, **ZeraFerox™ W** is perfect as a damp surface concrete primer under high-performance epoxy topcoats such as ZeraDur 99SC, or ZeraDur 100.

##### Attractive Non-Slip Finish:

**ZeraFerox™ W** can provide highly attractive semi-smooth semi-gloss finishes when used in combination with the Zeraus Non-Slip Additive 140 mesh. For applications demanding higher levels of non-slip, **ZeraFerox™ W Grey** can accept a much coarser non-slip additive up to 20 mesh. 1

##### Fast Setting:

**ZeraFerox™ W** sets in 5-6 hours @ 23°C (74°F) which allows the topcoat to be applied on the same day. It is ideal for quick turn-around projects.

Breathable:

**ZeraFerox™ W** prevents liquid from passing through into the concrete but remains breathable to allow moisture vapor, due to hydrostatic pressure from beneath the floor, to exit.

**HANDLING PROPERTIES @ 23°C (74°F)**

Mix Ratio (by volume)	
Clear.....	3 Part A: 1 Part B
Grey .....	4 Part A: 1 Part B
Solids (by volume)	
Clear.....	60%
Grey .....	65%
Mixed Weight (Density) .....	
Clear.....	1.07 kg/litre (8.9 lb./US gal)
Grey .....	1.35 kg/litre (11.2 lb./US gal)
VOC Material (ASTM D 6886).....	
Pot Life .....	30 g/L
Re-coat Time .....	40 minutes
Full Cure and Maximum Resistance.....	6 hours
	7 days

**SURFACE PREPARATION**

Although new concrete must be cured for a minimum of 28 days before applying any epoxy coating or primer, **ZeraFerox™ W** can be applied as early as 7 days. The substrate must be above 120°C (54°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 mechanically cleaned using planetary grinding machines or something similar in order to provide a clean tooth for the primer application.

**MIXING**

The mixing equipment used to mix the **ZeraFerox™ W** must be a mud mixer or a ‘Jiffy Mixer’ on a slow-speed drill. The mixing equipment must be clean and free of any contaminants that may be present from

previously used products. Mix component A first to eliminate the possibility of settlement.

**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 9 mm nap roller, apply the material to an even coat.

NOTE: YOU MUST HAVE GOOD AIR CIRCULATION TO ENSURE PROPER WATER RELEASE AND DRYING.

**LIMITATIONS**

- Waterborne epoxies should be applied at or above 10°C (50°F).
- The relative humidity must be below 80%. Good airflow with the use of large fans may be necessary to assist in the water release.
- It is recommended as a standalone coating for outdoor applications.
- Very high humidity with poor air circulation would greatly slow water release and drying. This may lead to water entrapment, mud cracking, and poor adhesion.
- Do not apply a thick film of the primer as water may become trapped.
- It is always recommended to apply **ZeraFerox™ W** in a thin film to avoid roller marks.
- Do not apply to steel or polyurethane sealants.

**COVERAGE**

6.7 m<sup>2</sup>/litre (275 ft<sup>2</sup>/U.S. gallon)

**PACKAGING**

3.79 liter (1 U.S. gal.) units for both  
15.34 litre (4 U.S. gal.) units for Clear  
18.9 litre (5 U.S. gal.) units for Grey

**CLEAN UP**

Clean all equipment and installation tools immediately with water.

**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.

**SAFETY PRECAUTIONS**

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

**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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