

# ZeraBrite™ ESP90

## *Polyaspartic Exterior Swimming Pool Coating*



### DESCRIPTION

ZeraBrite™ ESP90 is a high-gloss, two-component polyaspartic pool paint that is designed to provide a durable ceramic tile like finish with a captivating appearance that is easy to maintain and clean. It cures to a hard, yet flexible plastic-like impervious coating that is very resistant to algae, pool chemicals and water immersion.

ZeraBrite™ ESP90 provides excellent gloss retention, colour fastness and resistance to abrasion and scratches.

Colours: White, Silver Grey and Sky Blue.

### BENEFITS

- Very attractive high gloss plastic-like finish
- Will not discolor or chalk under UV exposure
- High solids with low odour
- Excellent hiding with a thin film application
- Suitable for both horizontal and vertical surfaces
- Good stain resistance
- Tough and flexible with excellent impact resistance
- Excellent adhesion properties to primed concrete
- Superior scratch and abrasion resistance
- Resistant to oil, rain, chlorine solution, salts, caustic chemicals and cleaners
- Resistant to algae, pool chemicals and water immersion
- Contains anti-mildew additives
- Easily cleaned and maintained

### Handling Properties @ 25°C (77°F)

Mix Ratio, by volume	2.5 part A : 1 part B
Solids by volume	90%
Mixed Weight (Density)	1.2kg/L (10 lb/US gal)
Pot Life	15 minutes
Re-coat time	4 hours
Full Cure and Maximum Resistance	4 days

### APPLICATION

### SURFACE PREPARATION

New concrete must be cured for a minimum of 30 days before applying ZeraBrite™ ESP90. The substrate must be above 10 °C (50°F) and must be totally dry, free of all dirt, waxes, previously applied coatings, oil, grease, laitance and any foreign matter that may interfere with the bonding of the primer to the prepared substrate. Cracks and surface defects should be repaired prior to the application of the coating. Concrete surfaces to be coated should be shot blasted, or mechanically abraded. Prime with ZeraDite™ or ZeraPrime™ 95DS.

- Surface preparation is the most important aspect of pool paint. Foreign substances such as oil residue, suntan lotion, body oils and algae, even in slight amounts, can have a detrimental effect on adhesion.
- Wash the pool surfaces with tri-sodium phosphate (TSP), mixed with warm water. Avoid using soap-based detergents. Scrub the surface vigorously with the TSP solution, and rinse off the residue with water immediately after scrubbing before it can dry out. Work on the pool walls first, then do the floor last.
- Treat the surface with an acid etching technique. Mix one part of muriatic acid (20% strength) to one part of water. To prevent injury, always add acid to water (not the other way around) and protect yourself with safety glasses and rubber gloves. One gallon of the mixed material is sufficient for 100 square feet of pool surface.
- Brush the acid solution on the surface. The acid will bubble on the surface when applied. Rinse with clean water. The concrete surface will feel like sand paper at this stage if the procedure is done right.
- Wash the surface again with the TSP solution to neutralize any remaining acid on the surface.
- Do not acid-etch fiberglass pools or already painted surfaces. To prepare the surface for painting, sand the surface with coarse sand paper. Clean with the TSP solution. The same procedure is applied to old epoxy painted surfaces.

- Mix Part A & B of ZeraDite™ thoroughly and apply it according to the instructions provided in the product data sheet. Allow it to set for at least 4 hours.
- Bare plaster or concrete surfaces are highly porous, and tend to absorb the paint. Therefore, a primer should be applied to saturation (but no puddling) and allowed to soak into the surface in order to seal the surface and provide a smoother profile for painting. The amount of paint you will need for your pool is closely related to the smoothness of the pool surface.

### **MIXING**

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

### **APPLICATION**

Over bare concrete: one coat of ZeraDite™ plus 2 coats of ZeraBrite™ ESP90. ZeraBrite™ ESP90 may be thinned 3% with urethane solvent for ease of application. Pour a workable amount of the mixed coating onto a paint tray and apply with a lint-free 6mm nap roller just like paint. Care should be taken not to over-roll the material as air may become entrapped in the coating. Allow to cure overnight for light foot traffic or 7 days for full service.

### **LIMITATIONS**

- Do not apply ZeraBrite™ ESP90 if the temperature is near dew point or the relative humidity exceeds 85%.
- When using over an epoxy-based coating or primer, apply within a re-coat window or roughen coating with sandpaper. The second coat must be applied within 24 hours.
- Not recommended over existing rubber-based paints.
- Ensure the surface is clean and dry.
- Do not leave the container opened; seal the container immediately because ZeraBrite™ ESP 80 reacts with moisture from the atmosphere and hardens to a gel-like material.
- ZeraDite™ must be used with ZeraBrite™ ESP90 on all outdoor applications over concrete or fiberglass surfaces.
- Being a thixotropic paint, the product has a slight orange peel finish.

### **COVERAGE**

5 m<sup>2</sup>/L (200 ft<sup>2</sup>/U.S. gal.) depending on porosity of the surface.

### **PACKAGING**

ZeraBrite™ ESP90 is packaged in:  
3.5 litre (0.92 U.S. gallon) units  
13.25 litre (3.5 U.S. gallons) units

### **CLEAN UP**

Clean all equipment and installation tools immediately with xylene, acetone or MEK.

### **SHELF LIFE**

One year from the date of manufacture if kept in the original unopened containers under normal heated warehouse conditions.

### **SAFETY PRECAUTION**

Consult the Safety Data Sheet (SDS) for specific instructions.

### **STORAGE**

Store in a heated warehouse. Do not freeze.

### **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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