



ZeraBrite™ SB-90

UV-Resistant Clear Polyaspartic Coating

DESCRIPTION

ZeraBrite™ SB-90 is a crystal clear, high solids content, low viscosity two-component, aliphatic polyaspartic ester coating. It provides outstanding UV-resistance, gloss retention and colour fastness. ZeraBrite™ SB-90 is highly durable with exceptional toughness, mechanical strength, abrasion and scratch resistance.

ZeraBrite™ SB-90 is an all-weather, all-season, fast curing coating. It cures at low temperature down to 2°C (35°F). It is also ideal for fast turn-around projects particularly during shut-down maintenance. It has 6 hours for foot traffic exposure, and it can sustain vehicular traffic in 24 hours.

WHERE TO USE

ZeraBrite™ SB-90 is designed primarily as a clear topcoat for aesthetics and protection of decorative epoxy flooring systems such as metallic, multi-coloured quartz, textured flake-embedded flooring as well as pure white floors.

It is also highly recommended for residential garage floors as well as exterior floors such as porches, swimming pool decks, balcony decks and traffic-bearing decks, loading docks, freezer rooms, maintenance rooms and fast turnaround commercial floors.

BENEFITS

- Attractive high gloss coating with exceptional clarity
- Pleasant non-offensive odour
- Rapid cure and hardness development with extended working time
- High solids, contains no hazardous air pollutant solvent (HAPS free); in with government regulations
- Cures down to 2°C (35°F)
- Outstanding outdoor stability & UV Resistance
- Superior abrasion, scratch and mar resistance
- Highly resistant to staining and yellowing
- Resistant to gasoline, water, oil, alcoholic beverages, caustics and food acids
- Tough and flexible with excellent impact resistance

HANDLING PROPERTIES @ 25°C (77°F)

Mixing Ratio, by volume	2 part A: 1 part B
Viscosity (Mixed)	500 cps
Solids (by volume)	90 %
Mixed Weight (Density).....	1.08 kg/L (9.0 lb./US gal)
Pot Life (working time).....	20 minutes
Foot Traffic (re-coat time)	6 hours
Vehicular Traffic.....	24 hours
Full Cure and Maximum Resistance	7 days

DATA - Cured Film (7 days cured @ 23°C/50% RH)

Tensile Elongation	26%
(ASTM D-412)	
Tensile Strength	13.5 MPa (1970 psi)
(ASTM D-412)	
Water Absorption.....	0.6 %
(ASTM D-471)	
Abrasion Resistance (ASTM D-4060).....	42 mg loss
Taber Abrasion, C17 wheel, 1000 gm	
Impact Resistance	pass 160 in./lb
(ASTM D-2794)	
Hardness (Shore D).....	65
(ASTM D-2240)	
Weatherability, 2000 hrs (Q.U.V).....	Excellent

SURFACE PREPARATION

New concrete must be cured for a minimum of 28 days before applying ZeraBrite™ SB-90. The substrate must be dry and free of all dirt, waxes, previously applied coatings, oil, grease, laitance and any foreign matter that may interfere with the bonding of the coating to the prepared substrate. Cracks and surface defects should be repaired prior to the application of the coating. Concrete surfaces that are to be coated should be mechanically abraded or shotblasted to provide a clean tooth for the coating application. If acid etching is the method of choice for the preparation of the concrete surface, the etched surface must be thoroughly flushed, neutralized and dried (for at least 2 days) prior to the application of the coating.

For the application over damp concrete surface we recommend the use of ZeraPrime™ W-48M (waterborne epoxy). Over decorative epoxy flooring ZeraBrite™ SB-90

is a self-primed coating that is applied directly in a one coat application over cured, firmly dried surfaces.

Note: Although ZeraBrite™ SB-90 has outstanding UV resistance and colour stability, being a clear coating, it will not stop the UV rays from going through it and can discolor the epoxy flooring beneath it. However, it will reduce the damage to great extent. Ensure that the epoxy utilized beneath it has resendable colour fastness to achieve the optimal results.

MIXING

USE A VERY SLOW SPEED MIXER. AVOID ENTRAPPING AIR INTO THE COATING. Mix Part A separately to obtain uniformity. Always use a stir stick to scrape the sides and the bottom of the mixing bucket. Pour the entire content of the liquid from the Part B container into the Part A container and mix thoroughly for 1-2 minutes until it is completely uniform.

APPLICATION

Pour a workable amount of the mixed coating on to the prepared substrate (or use a paint tray) and spread the material evenly with a short nap 6 mm lint-free roller. Always apply the coating once in a multi-directional manner (north-south, east-west) to provide an even coat at the proper thickness (8 mils wet). Care should be taken not to over roll the material as air may become entrapped in the coating. After 2 hours @ 23°C, apply the second coat in the same manner as the first if needed. Allow the coating to cure thoroughly for 2 hours for foot traffic exposure and 16-24 hours for vehicular traffic.

LIMITATIONS

- It is not recommended to use if the temperature is near the dew point or the relative humidity exceeds 85%.
- When using over an epoxy based coating or primer, apply within the re-coat window or roughen the coating with sandpaper.
- Ensure that the surface is clean and dry.
- Apply in a thin coat (6 mils dry film thickness per coat) otherwise the solvent may become entrapped in the dry film.
- Not breathable; do not apply over an exterior slab-on-grade unless a vapor barrier is used.

- Do not leave the container opened; seal the container immediately. Part B in particular is very sensitive to moisture.

COVERAGE

Based on a 6 mils dry film thickness per coat over a smooth surface:

6 mils: 6 m²/L (250 ft²/U.S. gallon/coat)

PACKAGING

11.3 litre (3 U.S. gal.) units

56.7 litre (15 U.S. gal.) units

CLEAN UP

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

SAFETY PRECAUTIONS

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.

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