



Epoxy &
Polyurethane
Manufacturing and
Research

TECHNICAL BULLETIN

EPMAR® SS1940 Black Adhesive System

Description

EPMAR® SS1940 Black Adhesive System is a three component, aggregate filled, 100% solids amine cured epoxy product that offers 0-VOC, has excellent adhesion, and is specifically designed to be less than (1) lbs. per ft² at ¼ inch installed.

Applications

EPMAR® SS1940 Black Adhesive System is a troweled mixture of epoxy and ultralight aggregates designed to be used where irregularities, grades, or contours need to be corrected. SS1940 meets the Fire Resistance requirements of MIL-STD-1623. Good for high temperature applications.

Performance

Military Specification MIL-PRF-3135G	Type 1, Class 2 and Type II, Class 2
VOC	0 g/l Meets Final SCAQMD Rule 1113 (2008)
Compressive Strength	2,800 psi ASTM D-695
Hardness Shore D	55
Weight	0.75 lbs. (1/4 inch x 12 inch x 12 inch)
Specific Gravity	0.62

Physical Characteristics

Volume Solids	100%
Weight Per Gallon	5.3 lbs.
Packaging	Premeasured kits and 8 lb. aggregate in a 6 gal. bucket
Flash Point	>200 °F.
Gloss	N/A
Dry Time	@70°F. 50% RH Recoat in 8-24 hours Walking traffic in 16-24 hours depending on selected cure rate. Full cure in 3-days.
Thickness	Easily trowelable to achieve deck fairing and grade as required.
Thinning	None. Acetone or alcohol for clean up.
Colors	Black
Pot Life	1 hour (Epoxy), 2 Hours (Epoxy/Aggregate) 70 degrees 50% RH

Packaging-Description

SA1940 Epoxy Resin –

Contains flameout material in the resin. To be used in the aggregate mixes. The proper amount of resin needed to mix with the hardener is pre-measured in a one gallon can.

SB1940 Epoxy Hardener –

Used with Epoxy resin is pre-measured in a quart can.

Aggregate Mix –

One can each of SA1940 Epoxy Resin and SB1940 Epoxy Hardener with the aggregate Mix. Package Yields approximately 18 - 20 ft² at ¼" thickness and 36 to 40 ft² at 1/8 inch thick. SS1940 easily towels to a feather edge.



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Surface Preparation

Metals –

All visible oil, grease, sludge, and any other contaminants shall be removed prior to any surface preparation in accordance with SSPC-SP1.

Application Methods

Mixing –

Mix base component (Part A – Black Epoxy Resin) until a homogeneous mixture is obtained. Next, pour activator (Part B – Epoxy Hardener) into base component and mix using mechanical jiffy mixer for 2-3 minutes or until homogenous color mixture achieved. Make sure all material is thoroughly mixed. Pouring mixed material into a clean container and re-mixing insures complete reaction of 100% solids epoxy. Once the epoxy component is mixed, add to the aggregate (Aggregate Mix) and immediately mix until a uniform black color is obtained and pour as soon as possible. Mixing until uniform “Black” is achieved will ensure no “dry spots.”

Trowel –

Trowel over “tacky” bond coating to fair deck irregularities and produce positive slopes toward drains. Use hand trowel to effectively spread mixed epoxy ultralight aggregate and spread to a thickness to fair the deck.

Environment –

Apply between 50°F. – 100°F. It can be anticipated that pot life and cure time will vary depending upon ambient temperature conditions.

Contact EPMAR for any additional application information.

Warranty

The following warranty is made in lieu of all other warranties, either expressed or implied. This product is manufactured of selected raw materials by skilled technicians. Neither seller nor manufacturer has any knowledge or control concerning the purchaser's use of this product and no warranty is made as to the results of any use. The only obligation of either seller or manufacturer shall be to replace any quantity of this product, which is proved to be defective. Any claim of defective product must be received in writing within one (1) year from date of shipment. Neither seller nor manufacturer assumes any liability for injury, loss, or damage resulting from use of this product.

Service is part of our formula

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