

EpoPro 294A/B WEAR-RESISTANT SURFACE COAT

EpoPro 294 A/B surface coat is specifically designed for applications where a hard, abrasion resistant coating is required. It withstands sandblasting 2 – 3 times better than comparable coatings and resists many other abrasive and corrosive environments exceptionally well. It adheres well to most metals and many plastics including most major epoxy laminating and casting systems.

Alternate hardeners are available to achieve faster or slower cures than the standard EpoPro 294A/B system. Specialty Hardeners are also available for exceptional heat or chemical resistant and other specialty applications. Please contact us to discuss your application if you think such a hardener might be needed.

TYPICAL APPLICATIONS

- Transformer housing
- Core Boxes & foundry patterns
- Punch & Die Surfaces
- Chemical Plating tanks
- Underwater Equipment
- Electronic Test Panels & Circuit Boards

HANDLING PROPERTIES

	<u>VALUE</u>	<u>TEST METHOD</u>
Density Mixed, g/cm ³	1.45	ASTM E-201
Viscosity Mixed @ 25°C, cps	1,000	ASTM D-2393
Mix Ratio By Weight	100A:18B	Calculated
Mix Ratio By Volume	100A:25B	Calculated
Gel Time @ 25°C, 100g mass	3-4 hours	ASTM D-2471
Recommended Cure Schedules:	24 – 48 hrs. @ 25°C or allow to set for 6-8 hrs @ 25°C or 3 hrs @ 50°C then cure for 2 hrs @ 65°C	

PHYSICAL PROPERTIES

	<u>VALUE</u>	<u>TEST METHOD</u>
Color	Blue-Gray* (*custom colors available)	Visual
Shore D Hardness	90	ASTM D-2240
Tensile Strength, psi	5,500	ASTM D-638
Tensile Elongation at break	4% – 6%	ASTM D-638
Compressive Strength, psi	14,000	ASTM D-695
HDT, RT Cure, °F (°C)	140 (60)	ASTM D-648
HDT, Post Cured, °F (°C)	162 (72)	ASTM D-648
Izod Impact, Notched, ft-lb/in	0.58	ASTM D-256
Shrinkage, in/in	<0.0002	ASTM D-2566

ELECTRICAL PROPERTIES

	<u>VALUE</u>	<u>TEST METHOD</u>
Volume Resistivity @ 25°C, ohm-cm	≥ 10 ¹³	ASTM D-257
Dielectric Constant @ 25°C, 50 Hz	4.2	ASTM D-150
Dissipation Factor @ 25°C, 50 Hz	0.028	ASTM D-150
Dielectric Strength, volts/mil	≥ 400	ASTM D-149

NOTE : Typical Properties determined using EpoPro 294A/B cured for 24 hours @ 25°C + 2 hours @ 65°C. Values are based on laboratory or average production results – not for specification purposes.

SUGGESTED PROCESSING GUIDELINES:

EpoPro 294A/B can be applied by brush, roller, squeegee, knife, spatula, or by spraying or dipping. It is also suitable for meter-mix dispensing and can be supplied in premixed and frozen syringes for small area applications.

Weigh Part A and Part B in the recommended ratio as accurately as possible into a clean mixing container. Always use weighing equipment having accuracy in proportion to the amounts being weighted. Blend by using a spatula or stirring stick for 2-3 minutes using a kneading motion. Scrape the bottom and sides of the mixing container carefully and frequently to produce a uniform mixture.

Apply the coating to clean, dry surfaces. Allow to cure at room temperature for 24-48 hours or allow to set at 25°C for 6-8 hours or at 50C for 3 hours and then heat cure at 65°C cure for 2-3 hours.

STORAGE GUIDELINES:

Store this material in a clean, cool and dry environment in its tightly closed original container. Products may settle during storage and should be thoroughly re-mixed prior to use. Avoid extended exposure to high humidity. Tightly re-seal after use. If the recommended storage conditions are observed the products will have a minimum shelf-life of 12 months from the date of shipment.

HANDLING PRECAUTIONS:

Mandatory and recommended industrial hygiene procedures should be followed whenever these products are being handled and processed. For additional information please consult the corresponding material safety data sheets.

PERSONAL HYGIENE:

EpoPro 294A

CAUTION! May cause eye irritation. Prolonged or repeated skin contact may cause irritation, may cause allergic skin reaction. Harmful if inhaled or swallowed. Avoid contact with eyes, skin, or clothing. Wear eye protection and impervious gloves when handling. Wash thoroughly after handling. Avoid breathing vapor or mist. Keep containers closed when not in use. Use only with adequate ventilation. Do not take internally.

EpoPro 294B

WARNING! Causes skin and eye irritation. May cause allergic skin and respiratory reactions. Harmful if inhaled or swallowed. Do NOT get in eyes, on skin, or clothing. Wear chemical splash goggles and impervious gloves when handling. Wash skin and clothing thoroughly after handling. Avoid breathing vapor or mist. Use only with adequate ventilation. Keep containers closed when not in use. Do NOT take internally.

FIRST AID

In case of contact:

Skin – Immediately wash skin thoroughly with mild soap and water. Remove contaminated clothing and wash before reuse. Destroy contaminated shoes and other articles made of leather.

Eyes – Immediately flush eyes with plenty of water for 15 minutes and get prompt medical attention.

Inhalation - Remove person to fresh air. Administer oxygen or artificial respiration if necessary. Call a physician.

Ingestion - Do not induce vomiting. Dilute with plenty of water and contact physician immediately. Never give anything by mouth to an unconscious person.

DISCLAIMER:

IMPORTANT: The following supercedes Buyer's documents. **SELLER / MANUFACTURER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller / Manufacturer be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results presented are based on controlled or laboratory work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended

Specialty Polymers & Services, Inc. (SP&S)

27822 Fremont Court

Valencia, CA 91355

www.spolymers.com

Tel - 661-294-1790

Fax - 661-294-0640

info@spolymers.com