

EpoPro[®] 8260A/2919B

Filled epoxy dip coating / conformal coating

EpoPro[®] 8260A with EpoPro[®] 2919B is a filled, 100% solids epoxy dip coating or conformal coating system. When cured, this material forms a continuous infusible envelope of protection with excellent electrical and physical properties.

When applied via brushing or dipping, EP8260A / 2919B is designed to yield a smooth, void-free, sag-free and drip-free coating even on vertical surfaces. EP8260 is best cured at elevated temperatures. It has superior resistance to moisture and many chemicals and exhibits very good resistance to cracking due to thermal cycling. This material adheres well to various substrates and exhibits excellent edge coverage.

EpoPro[®] 8260A with EpoPro[®] 2919B is recommended for the dip coating of heat sensitive electronic components, rectifiers, capacitors (styrene, paper, mylar, and tantalum), resistors and ferrites. Alternate hardeners are available to allow users to tailor the processing and final properties to their requirements.

TYPICAL APPLICATIONS

- General potting of electronic devices
- Brushing or Dipping of Electronic Devices
- Heat sensitive electronic components, rectifiers, capacitors and resistors.

HANDLING PROPERTIES

	<u>VALUE</u>	<u>TEST METHOD</u>
<u>EpoPro 8260A</u>		
Density, g/cm ³	1.35	ASTM E-201
Viscosity @ 25°C, cps	100'000	ASTM D-2393
<u>EpoPro 2919B</u>		
Density, g/cm ³	1.17	ASTM E-201
Viscosity @ 25°C, cps	125	ASTM D-2393
Mix Ratio By Weight	100A:40B	Calculated
Mix Ratio By Volume	100A:46B	Calculated
Viscosity Mixed @ 25°C, cps	5'200	ASTM D-2393
Gel Time @ 100°C, 100g mass	40 minutes	ASTM D-2471
Recommended Cure Schedules:	4 hrs. @ 110°C or 2 hrs @ 120°C or 1 hr @ 140°C, or 30 min @ 150°C. For larger parts (more than 50g): 2 hrs. @ 80°C + 4 hrs. @ 110°C.	

PHYSICAL PROPERTIES

	<u>VALUE</u>	<u>TEST METHOD</u>
Color	Black	Visual
Density, g/cm ³	1.26	ASTM E-201
Shore Hardness	85D	ASTM D-2240
Glass Transition Temp. (T _g)	109°C	
Coefficient of Thermal Exp. (CTE)	60 ppm/°C	ASTM E -381

NOTE : Typical Properties determined using EpoPro 8770A/B cured for for 4 hours @ 110°C. Values are based on laboratory or average production results – not for specification purposes.

SUGGESTED PROCESSING GUIDELINES:

EpoPro® 8260A/2919B can be applied by pouring, brushing, roller, squeegee, knife, spatula, or by spraying or dipping. It suitable for meter-mix dispensing and can be supplied in premixed and frozen syringes for small volume applications.

Weigh resin and hardener 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 – ideally the accuracy of the scale should be less than 1% of the mass being weighed. 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.

For best adhesion apply to clean, dry surfaces. Allow to cure at room temperature for 24-48 hours or allow to set at 25°C for 3-4 hours then heat cure at 65°C cure for 4 hours. For small volume application immediate heat cures may be possible and more rapid cures may be possible at higher temperatures. If you would like recommendation on alternate cures please contact us. Always evaluate a suggested cure schedule in your application prior to implementing it for full scale production as each application unique conditions can effect the results.

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 8260A

CAUTION! May cause eye irritation. Prolonged or repeated skin contact may cause irritation, may cause allergic skin reaction. 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 2919B

WARNING! May cause 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.

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