



EBS-2X

GRAPHITE COATING

DESCRIPTION: EBS-2X is a two-component, 100% solids, room temperature-cured epoxy conductive graphite adhesive that may be used as a sacrificial coating in high-temperature application, as a electrostatically-dissipative coating in power generation and transmission applications as well as a conductive coating/adhesive for electrochemical and electronics applications. EBS-2X cures dry to the touch within 3 hours depending upon film thickness and is fully cured in less than 24 hours. EBS-2X exhibits excellent adhesion to a variety of substrates as well as good chemical, electrical conductivity and physical properties.

EBS-2X consists of Part 1 and Part 2, both of which contain conductive graphite fillers. EBS-2X is delivered in premeasured kits at 4.0 pbv of Part 1 to 1.0 pbv of Part 2 (by volume). Ideally, EBS-2X can be used in side-by-side 4:1 volumetric cartridges or in 4:1 volumetric plural component mixing systems.

PHYSICAL PROPERTIES:

	<u>Method</u>	<u>Range</u>
Viscosity, cps (25°C/100 sec ⁻¹ shear rate/CAP2000+L)	ASTRO-CAP	
EBS-2X Part 1		50 – 80,000 cps
EBS-2X Part 2		40 – 60,000 cps
Percent Solids	ASTM D115	100%
Density (mixed) (g/ml) @ 25°C	ASTM D1475	1.36 g/ml
Lbs. per gallon (mixed) @ 25°C	ASTM D1475	11.4 lbs./gal
Percent Carbon by Weight, Total		40.0%
Percent Carbon by Volume, Total		25.0%
Color		
EBS-2X Part 1		Black
EBS-2X Part 2		Black
Gel Time (100 g. mass, 25°C)	ASTRO-GEL	45 minutes
Mix Ratio		
Parts By Weight (pbw)		4.4 pbw Part 1 to 1.0 pbw Part 2
Parts By Volume (pbv)		4.0 pbv Part 1 to 1.0 pbv Part 2

MIX WELL PRIOR TO USE: EBS-2X Part 1 and Part 2 may soft-settle or build viscosity during storage. Containers should be mixed thoroughly both before and after mixing when used in kit form. When used in cartridge form, dispose of the first 5 ml of material dispensed through the mix nozzle. While cartridges may be sealed and stored between uses, mix nozzles should be disposed after each use. For specific mix nozzle recommendations, please contact us directly.



APPLICATION GUIDELINES:

- EBS-2X may be applied by spatula, trowel or nozzle..
- Recommended Dry Film Thickness = 3 – 10 mils (Will vary by use.)
- Can be used as received, but may be thinned as needed using acetone, MEK, methyl acetate or t-butyl acetate. Recommended dilution = 5 – 10% by weight. IF THINNED: Provide proper ventilation and personal protection equipment. Mix/shake well before use.
- Touch Dry = 2 – 4 hours depending upon film thickness and ambient temperature
- Full Cured Properties = 24 hour at 25°C or 45 minutes at ≥120°C or 30 minutes at ≥ 140°C.

STORAGE: EBS-2X Part 1 and Part 2 should not be stored above 110°F (43°C). Materials should be stored in sealed containers when not in use. Do not store containers near sources of heat. Handling should be done in accordance to local, state and Federal safety regulations. Disposal should be done in accordance to local, state and Federal regulations. Please consult the Safety Data Sheets for more specific handling and disposal information.

SHELF LIFE: EBS-2X Part 1 has a shelf life of three (3) years from date of manufacture when stored in sealed containers stored away from sources of heat, flame, ignition and direct sunlight. EBS-2X Part 2 has a shelf life of two (2) years from date of manufacture when stored in sealed containers stored away from sources of heat, flame, ignition and direct sunlight. Manufacturing date is indicated on the label. Disposal should be done in accordance to local, state and Federal regulations. Please consult the Safety Data Sheets for more specific handling and disposal information.