

One Part Graphite Adhesive

Our EBS- 1x Graphite Adhesive is a one part, carbon filled / reinforced, high temperature adhesive used to bond, fill and repair carbon-carbon and graphite components and structures used in reducing atmospheres to 5400 °F (2980 °C).

EBS-1x is used typically to bond and patch carbon-carbon and graphite components such as brushes, RF susceptors, fixtures, electrodes, crucibles, furnace parts, metal-casting dies, and continuous casting dies, graphite flexible foil to graphite rigid insulation, graphite flexible foil to carbon/carbon composite, graphite flexible foil to graphite felt, carbon/carbon composites to insulation.

EBS-1x is an easy-to-apply, dispensable adhesive that contains no asbestos or volatile organic solvents. A range of package types (cartridge, cans, pails, drums) make for ease of handling and dispensing to minimize waste.

It is recommended to apply EBS-1x to both clean dry surfaces, applying minimal pressure to ensure a uniform film is formed between joined surfaces. A strong mechanical bond is achieved after curing for 30 minutes at 120°C. It is recommended to allow the bond to fully set to achieve maximum moisture resistance and tensile-shear strength which has been measured in the range of 1100 psi at room temperature.

Physical properties

- 100% solids, no solvents or VOC's
- Appearance = thick, pasty thixotropic liquid.
- Percent carbon filler = > 35%
- Carbon char yield : Approximately 78%
- Non- Flammable
- Coverage: 4 mil film will cover ~400 sq. ft.





Application

- o Application: Caulk gun, spatula / brush by hand (can be thinned with solvent if desired)
- o Clean-up: MEK, acetone, glycol ether solvents, generally polar solvents clean up best
- o 4mil film: Touch dry in 30 minutes at at 120°C

Shelf life typically greater than 6 Months @ 55-75°F or 12 months refrigerated (35-50°F)

EBS-1x is available in cartridges (1/10 gallon ~12oz or 450grams net), pint, quart, gallon, and five-gallon pails.

Warranty:

The data provided relates only to the product noted above. The information is correct to the best of our knowledge, CeraMaterials does not guarantee any properties. Because conditions and methods of use of our products are beyond our control, this information should not be used as a substitution for users own tests to ensure that CeraMaterials products are safe, effective, and fully satisfactory for the intended end use. CeraMaterials's sole warranty is that the product will meet sales specifications in effect at the time of shipment.

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