



ADJUSTED DIELECTRIC CONSTANT ADHESIVE

Eccostock HiK Cement is a series of two-component adhesives of adjusted dielectric constants. The dielectric constant of the cement is selected to match the dielectric constant of the particular Eccostock® HiK stock being used.

FEATURES AND BENEFITS

- Adjusted dielectric constant
- Excellent adhesion

MARKETS

- Commercial Telecom
- Security and Defense

SPECIFICATIONS

TYPICAL PROPERTIES	ECCOSTOCK HiK CEMENT
Temperature Range °C (°F)	-57 to 149 (-70 to 300)
Dissipation Factor, (tan δ)	~0.01
Bond Strength (psi)	~2000
Mixing Ratio by weight, A:B	100 : 15

APPLICATIONS

- Eccostock HiK Cement is primarily used for bonding Eccostock® HiK rod, sheet, or bar stock into microwave and other electrical assemblies.
- When properly prepared, Eccostock HiK Cement has excellent adhesion to Eccostock® HiK stock, metals, plastics, glass and ceramics.
- The cement can also be used by itself to fill cavities and as an embedding medium. The fillings of cavities must be done with care to avoid excessive air trapping.

AVAILABILITY

- Eccostock HiK Cement is available in 1 pound kits.
- The dielectric constants available are 3, 3.5, 4, 5, 6, 8, 10, 12, 15, & 25 with a dielectric constant tolerance of ± 0.2.
- Part B of the Eccostock HiK Cement does ship as a hazardous material.

INSTRUCTIONS FOR USE

- Clean all surfaces to be bonded removing dust, oils, and greases with an appropriate cleaning solution.
- If the material will be used for bonding HiK to itself, clean the surface of the material as best possible with brush or vacuum to remove any HiK dust.
- Insure that the dielectric constant of Part A is the same as that of Part B. The dielectric constant is marked plainly on the containers in which they are supplied.
- Mix 100 parts by weight of Part A with 15 parts of Part B. This will produce a smooth non-flowing adhesive.
- Apply the adhesive to the cleaned surface to be bonded. Squeeze out excess.
- Cure will take place within 4 hours at room temperature. Increased strength will develop over the next 24 hours.
- Cure can be accelerated by use of slightly elevated temperatures.
- Shelf life is 6 months.

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RFP-DS-HiK Cement-112515

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