EMERSON & CUMING MICROWAVE PRODUCTS

RoHS Compliant

ECCOSTOCK® HiK Cement

Adjusted Dielectric Constant Paste

Material Characteristics

- ECCOSTOCK® HiK Cement is a series of two-component pastes 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

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

Shipping & Availability

- ECCOSTOCK® HiK Cement is available in 1 pound kits. The dielectric constant available are 3, 4, 6, 10 & 15 with a dielectric constant tolerance of ± 0.2
- Part B of the ECCOSTOCK® HiK Cement does ship as a hazardous material. It's material hazard class is as follows: Class 8 Corrosive, UN1760, PG III

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 paste
- Apply the paste 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

Typical Properties

Dielectric Constant Range	3, 4, 6, 10 & 15
Dissipation Factor, (tan δ)	~0.01
Bond Strength (psi)	~2000
Operating Temperature Range, °F (°C)	-70 to 300 (-57 to 149)
Mixing Ratio by weight, A:B	100:15
Shelf Life	6 months