



MANTECH

BASIC LEVEL QUESTIONS & ANSWERS

ELITE CHEMICALS

1. WHAT IS A POTTING COMPOUND ?

It is a material (mixture) used in electronics and electrical to encapsulate and protect IP / designs, electronic components, circuits and wiring vibration, humidity, electrical isolation, corrosion, etc.

2. WHAT ARE THE DIFFERENT MATERIALS AVAILABLE

Basically there are two types :

a. POLYURETHANE

This is used when semirigid flexibility is required and the need to re-enter the product is a requirement.

These products can be filled or unfilled.

i.e. transparent or opaque / coloured.

b. EPOXY

These are hard products with no flexibility at all. No re-entry is possible.

Offering total IP protection for the product.

These products can be filled or unfilled.

i.e. transparent or opaque / coloured.

3. WHAT IS THE DIELECTRIC STRENGTH / ELECTRICAL INSULATION

This is an indication, of the levels of voltages the polyurethane or the epoxy can withstand before breaking down.

4. HOW DO THE ELITE CHEMICAL POTTING COMPOUNDS WORK

They are comprised of two chemicals, (Resin and Hardner) that must be mixed prior to potting or pouring. Once potted, they start reacting and curing or hardening at ambient / room temperature.

During curing, the compound will create a slight exothermic reaction. (Releases heat)