

Conformal PC Board Coatings

Conformal Coatings for TESCO's Printed Circuit Boards and Electronic Components used in harsh environments.

TESCO offers an optional Conformal coating to provide a secure envelope around our Liquitronic circuit board and its components that also acts as a barrier against moisture, fungus, dust and other environmental contaminants. Our Conformal coatings can also enhance circuit reliability by eliminating detrimental conditions such as leakage.

When uncoated printed circuit board assemblies are exposed to humid air, thick films of water molecules form on their surfaces. The thicker the water films, the lower the surface resistance (commonly measured as surface insulation resistance). Typical results are cross talk, electrical leakage, and intermittent transmission, which may lead to permanent termination of the signal, i.e. a shorted circuit. Moisture films on uncoated circuits also provide favorable conditions for metallic growth and corrosion. Dust, dirt and other environmental pollutants that settle on assembly surfaces trap moisture and magnify these effects.

For harsh environments, TESCO's coated PC Boards will provide:

Chemical	Chemical and fungus resistance, hydrolytic stability.
Humidity	Absorption and vapor transmission.
Thermal	Temperature endurance, thermal expansion, thermal conductivity, flame resistance.
Electrical	Volume and surface resistivity, dielectric constant, dissipation factor, arc resistance, dielectric strength.
Mechanical	Resistance to cracking from thermal changes, abrasion resistance.



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