RAINBOW TECHNOLOGY SOLUTIONS LAUNCHES
THE NEXT GENERATION OF PCB “SUPER RESISTS”

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Rainbow Technology Systems has unveiled the next generation of PCB resists for the electronics sector. The resists recently made their debut at the Productronica show in Munich.

For the past 50 years dry film has been the traditional method of coating on PCBs. However it has become an increasingly expensive method and is prone to potential flaws. It requires a clean room environment and a costly, purpose-built coating line. The nature of the method means that the dry film is not guaranteed to always lay entirely flat on the copper panel thus when it comes to etching the etching chemistry can get under the dry film which could lead to an open circuit.

Rainbow’s proprietary liquid resist and coating system addresses these issues giving PCB manufacturers complete control over handling and control of coating thickness. The liquid resist flows easily, adheres closely to the surface of the substrate and can be applied at ambient temperature. Moreover, the resist does not require drying before it is imaged. The panel can still be handled as the resist coating is protected by a layer of mylar. The resist is first applied to a reel of polyester and then laminated directly to the copper panel, leaving the protective polyester carrier in place over the resist transfer coating. After lamination the panel is “singulated” separating it from the carrier web. The panel can then be exposed by any method, including DI/LDI.

Coating thickness can be from 2-30 microns; thinner resists are ideal for fine line printing. Coating thicknesses and/or part numbers can be changed in as little as 2-3 minutes.

Jonathan Kennett, chief executive officer, Rainbow Technology Systems said: “The Rainbow process can save PCB manufacturers considerable amounts of time and money. The chemistry of the Rainbow resist is established and proven. This new transfer coating approach can be configured to coat panels, webs, single or double sided as both an etch or plating resist. Our coating and laminating process can also be used for applying other inks or liquids requiring close coating control or imaging.”

For further information about Rainbow Technology Systems please visit www.rainbow-technology.com
About Rainbow Technology Systems

Rainbow Technology Systems is an innovative design, manufacturing and consumables supply company based in Glasgow. Its projects range from bespoke process automation solutions and innovative coating technologies to industry leading contamination control solutions to critical manufacturing sectors.

For further information please visit [www.rainbow-technology.com](http://www.rainbow-technology.com)