

Adhesives and protective materials and processing equipment for medical device assembly



INTERTRONICS supplies ISO 10993 and USP Class VI adhesives and associated processing equipment, designed to help you achieve process reliability, repeatability and validation.



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As a medical device manufacturer, you need:

- Adhesives and protective materials which bond to your substrates, withstand the rigours of your product end-use, and comply with the regulatory needs of the industry
- Synergistic material and equipment technologies which enable your processes to be highly efficient, reliable and repeatable
- The assurance that your validated process is verifiably and consistently in control

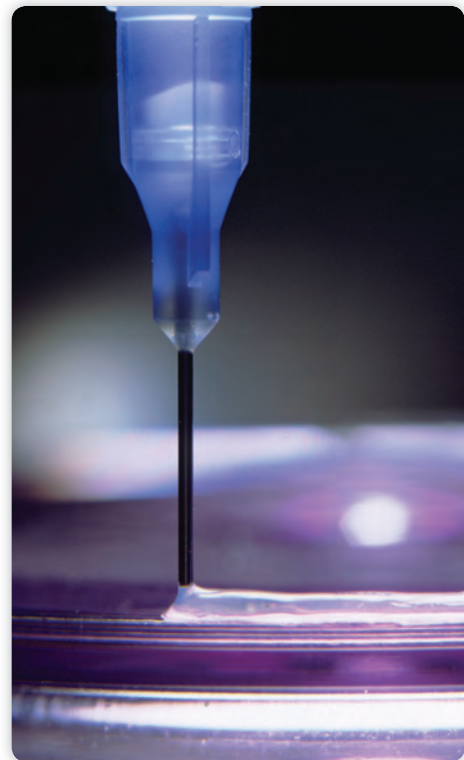
That's precisely what we bring.

As well as products for bonding the plastics, metals, ceramics, glass, and other substrates frequently used in medical devices, we offer protective materials for coating, sealing, gasketing and temporary masking. The type of assemblies for which our materials are typically used include catheters, tube sets, reservoirs, respiratory masks, laryngeal mask airways, resuscitation tubes, blood filters, syringes, needles and oxygenators.

We can also specify and supply the equipment you need to mix (in the case of two-part chemistries), apply and where necessary, cure these materials, as well as products for surface preparation and pre- and post-assembly cleaning.

Many of our products provide you with real time visual verification of process integrity, making test and inspection faster and easier.

With this combination – together with our technical expertise – you can be safe in the knowledge that our products will work every time.

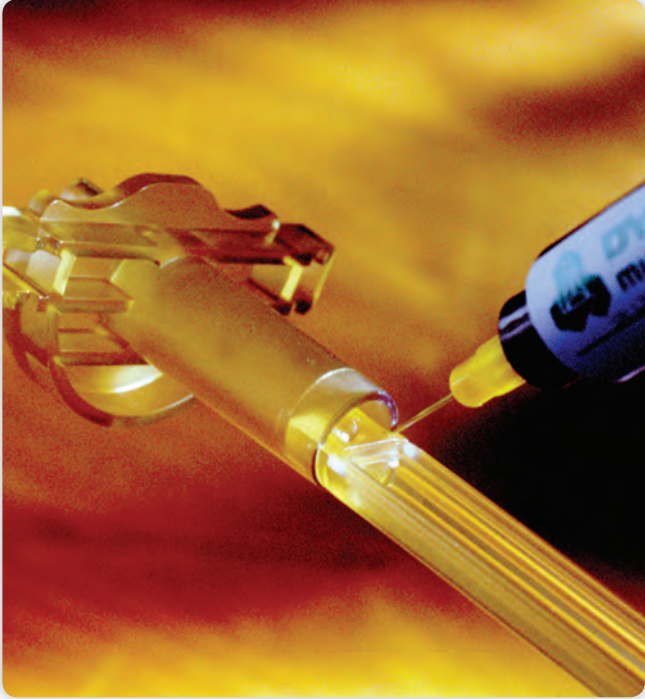


Our materials are:

- ISO 10993 and USP Class VI
- Solvent-free
- Fast-cure
- Sterilisable
- Available in various viscosities
- Available in various hardnesses
- Designed to adhere to most typical substrates used in your industry

Materials Product Range

Dymax Medical Grade Adhesives, Coatings & Masking Materials



Dymax UV/visible cure medical grade adhesives cure in seconds on exposure to ultraviolet and/or visible light. Certified to ISO 10993 and USP Class VI, they provide clear, high-strength adhesive bonds in the assembly of many types of device. They are compatible with gamma, EtO and E-Beam sterilisation. Dymax UV/visible cure adhesives are single-part chemistries, so require no mixing. Formulations are available which are optimised for UV LED curing.

Opti-tec Epoxy Adhesives

Opti-tec medical device epoxy adhesives are two-component non-cytotoxic formulations which meet ISO 10993. The line caters for the demanding and wide-ranging requirements of many specific applications including high temperature bonding, and clear potting and encapsulation for medical devices including endoscopes.

Medical Grade Cyanoacrylates

Our medical-grade, low-odour, low-bloom, solvent-free cyanoacrylate adhesives offer exceptional product stability and high speed cure. They may be tested for suitability with opaque and difficult to bond substrates including ABS, stainless steel, polycarbonate, PVC and aluminium.



- See-Cure Visual Placement & Cure Validation**
 See-Cure technology provides visual cure validation that makes it easy to confirm placement and cure integrity by eye or using automated optical inspection. Blue when uncured to indicate location on the substrate, the adhesive becomes colourless when correctly cured, providing easy confirmation of a secure bond.

- Ultra-Red Fluorescing Inspection & Authentication**
 Ultra-Red technology facilitates bond line inspection processes and product authentication. The material appearance changes from colourless to bright red when exposed to black light.



Polytec PT Adhesives

The Polytec PT range of ISO 10993-approved, two-part epoxy adhesives includes products for electrically conductive and optical applications. They are available in process convenient packages, including pre-mixed and frozen syringes.



Dispensing Product Range

Fisnar Dispensing Systems, Accessories & Consumables

The Fisnar range of fluid dispensing equipment includes compact, entry-level benchtop time/pressure devices, pressure pots and valves together with all barrels, cartridges, tips/needles and many other consumable items.



Fisnar Dispensing Robots

Our benchtop and gantry robots help to automate your material placement with accuracy and consistency. They can be used in conjunction with any of our automatic dispensing systems and where necessary, configured with your existing or new processes. We also supply a rotary table for dispensing circular patterns of adhesives and sealants.

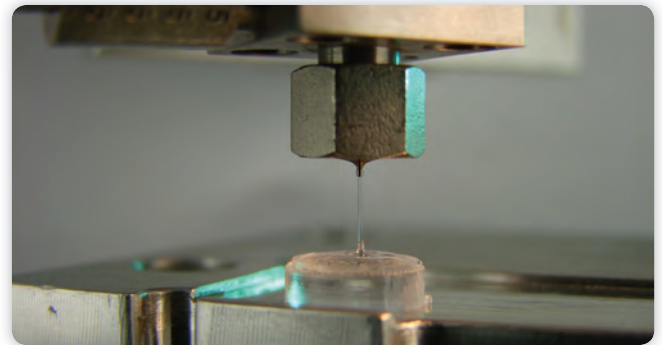


preeflow Precision Volumetric Dispensing Systems

The preeflow eco-PEN precision volumetric, positive displacement system delivers accurate and repeatable dispensing of a wide range of material viscosities with total control and no stress to the material being dispensed.



Liquidyn Ultra-High Speed Liquid Jetting Valves



The Liquidyn micro-dispensing valve uses non-contact jetting technology, combining high accuracy and repeatability with the ability to dispense/dose ultra-low volume material deposits. Jetting also facilitates high speed operation and greater throughput.

flowplus¹⁶



flowplus¹⁶ helps to deliver optimum process assurance for fluid dispensing or dosing applications where accuracy is critical. The compact, inline, through-flow fluid sensor detects issues such as inconsistent material feed, clogging needles or nozzles, unsuitable needle-to-substrate distance or the presence of air bubbles.

Curing Equipment Product Range

Dymax UV Flood & Spot Lamps



Dymax broad spectrum UV curing lamps are available as spot, flood and conveyor systems, and in various sizes and intensities to suit different applications. All lamps can be integrated into automated systems.



UV LED Lamps



UV flood and spot curing equipment using LED technology achieves uniform frequency and intensity output for the lifetime of the equipment, ensuring consistent cures and facilitating process validation.

Dymax radiometers provide accurate measurement of emitted energy, for assured process control.

Metering & Mixing Product Range

THINKY Mixers



THINKY mixers are non-contact 'planetary' mixers for adhesives and all other multi-part compounds. They mix, disperse and degas your materials in seconds to minutes, in a sealed or lidless container such as a jar, beaker, syringe tube or cartridge. They are available in a range of sizes and capabilities – with or without integral vacuum.

preeflow eco-DUO 450 Precision Meter/Mix/Dispense System



The preeflow eco-DUO 450 meters, mixes and dispenses a wide range of 2-part materials – including adhesives – with absolute control. It is a precision volumetric, positive displacement system providing a high degree of accuracy and repeatability.



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Comprehensive knowledge, seamless support

When you work with INTERTRONICS, we will ensure that we fully understand your objectives, product design brief and assembly process. We can work with you during substrate selection, process design and process validation to implementation, test & inspection and quality assurance.

We partner with leading international material and equipment suppliers to ensure that we always deliver market-leading production solutions. Apart from having the requisite quality and performance approvals, they are rigorously selected by us to ensure they provide the products best suited to our customers' needs – supported by excellent service, technical support and delivery.

When you have chosen to use our products, we will meet your delivery expectations – not just in terms of timeliness, but accommodating all of your requirements such as multiple deliveries or call-offs.

We will also provide ongoing support and technical advice throughout the product lifecycle and beyond, on to your next project.

Contact us

We welcome the opportunity to discuss your current or forthcoming assembly application, either with one of our Product Specialists at your premises, or at our Technology Centre in Oxfordshire. We can also arrange a seminar at a location of your choice to explain our technologies and products, and their respective benefits.

Please contact us with your enquiry:

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