

# Medical device adhesive case study published in BP&R

## Description

Thank you to [British Plastics and Rubber](#) magazine, who feature one of our [recent application stories regarding Brandon Medical](#) in the latest issue. The company used one of our [LED UV curing plastic bonding adhesives](#) to save production time.

### ADHESIVES & BONDING | NEWS

#### CASE STUDY: INTERFERENCE UV ADHESIVE SYSTEM CURES THE PROBLEM FOR BRANDON MEDICAL

UK-based manufacturers of medical and forensic lighting products, Brandon Medical, says it has saved a "considerable amount" of time in the production process of a forensic lamp thanks to the use of a UV adhesive system.

Brandon Medical was experiencing problems bonding three polycarbonate lenses together to make the Stage First lens of its 'Quorum' kit operating forensic lamps, where extended curing times for adhesives were causing a bottleneck in the production process and increasing expenses.

"The two-part epoxy we were using had an extended set-up time, so we were looking for an adhesive which allowed us to handle and position the parts easily with an unlimited open time, and then to cure quickly using UV light," explained Brandon Medical's Technical Director, Nigel Daulton.

"The problem with this approach was that, although the parts to be bonded are visually checked, the material has UV absorbing properties - so getting the right amount of light curing energy to the joint appeared to be tricky."

Adhesive systems specialist, Invertrans, provided a solution in the form of its Dynax 3225-360 adhesive to bond the lenses. "Our Dynax 3225-360 is highly suited to this application - it is a single part UV/visible light



Brandon Medical uses the UV adhesive system for the construction of its forensic lighting lamp.

curing adhesive which bonds to polycarbonate and many other plastics," explained Mike Baines, Sales Director.

The adhesive is readily dispensed - in the case of Brandon Medical to using a dispensing robot - and typically cures in a few seconds. The adhesive used also provides a colour change feature, known as Dynax ResCare (RC), where the product goes from clear when fully cured, so that dispensing and cure can be checked visually.

Baines continued: "Brandon Medical can have reassurance of the correct adhesive amount in the bottles and adequate cure. No equipment is small 110 UV curing lamp

with a 10x20mm emitting window, allowing it to be mounted on the robot, which dispensed the adhesive to 305mm high intensity output mirrors the UV absorption of the polycarbonate, providing enough light curing energy to give Brandon Medical fast cure, with less heat introduced into the polycarbonate modules compared with broad spectrum lamps."

Concluding, Daulton says that the use of the UV adhesive system "very successfully resolved things" and saved Brandon Medical a "considerable amount of time in the production process."

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DYNAX-ADHESIVE

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