

Case study: protecting rugged, outdoor work lights from the elements



[Venta Global](#) is a tier one supplier of lighting solutions to vehicle and

machinery manufacturers, offering a complete service from custom design to delivery. It has made significant investment into new technology for its UK production facility in Hampshire that deskills processes to enable consistent and reliable results, removes inconsistencies due to operator variance, and allows future scalability.

Venta Global required a [potting compound](#) which could adhere to their choice of substrates and provide a seal to protect against environmental contaminants and water ingress. Our team recommended that Venta Global trial the [adhere IRS 3078 Polyurethane Potting Compound](#), a semi-rigid, room temperature curing, electrically insulating black material. Its low viscosity meant it could flow into all required areas of the product and its 1:1 mix ratio makes dispensing it, or automating the

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dispensing process, simpler.

To dispense the material, we recommended the [2-K-DOS](#), which can accurately meter, mix, and dispense all in one system. The 2-K-DOS is programmable from a simple control panel, and users can set mix ratio, dispensing rate, and dispensed quantity to provide consistent, error-free metering, mixing, and dispensing. The system is designed with a unique modular approach allowing it to be customised to Venta Global's processes using appropriate material reservoir sizes and dispensing hose lengths.

A commercial advantage of the 2-K-DOS is that Venta Global could benefit from the cost savings of 5 kg bulk kits of IRS3078, over the 50g side-by-side cartridges that had been used initially for testing, further reducing the payback period. In addition, the 2-K-DOS eliminates the need for time intensive, manual processes like weighing and mixing. The system can also be simply reconfigured to work with robots or further automation, should Venta need to increase positional accuracy in future.

"We've had the machine for over a year now, and it has been running perfectly. At the touch of a button, we can dispense a fully homogeneous mixed and metered shot exactly where it's needed. The Intertronics team were on hand to support throughout, and we benefitted from their technical knowledge, support, and responsiveness. This coupled with the commercial support means I am sure it will not be our last collaboration."

Roderick Dible, Production Manager at Venta Global

You can read the full case study here: [Potting compound and accurate, reliable dispensing for automotive lighting](#)

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