

Envirometal Technologies install a new pretreatment plant at Eaton Power Quality and Electronics Division (Cooper B-Line Ltd)

The last couple of years have been a busy and exciting time for Envirometal Technologies Ltd with a number of new plant installations all over the UK. One of the highlights was the design and installation of a brand new pretreatment plant and reformatting of some existing Plant for Eaton Power Quality and Electronics Division (Cooper B-Line Ltd.) to enable them to take advantage of Envirometal Technologies' exclusive Plaforization™ system. Eaton, based in Highbridge, Somerset has over 50 years of experience in providing engineered solutions for commercial and whitespace datacomm applications. Eaton is a global diversified power management company that helps customers worldwide manage the power needed for buildings, aircraft, trucks, cars, machinery and businesses, including developing and manufacturing innovative technologies for Data Centre Enclosures and Power Management within them.

The Company required a complete overhaul of their ageing degreasing and phosphating process in order to reduce the size of their Plant, cut costs, improve corrosion resistance and minimise their environmental impact. By adopting Envirometal Technologies' unique Plaforization™ process they have achieved these goals and more. Toran 3 proved to be the ideal product for Eaton from Envirometal Technologies' range as it is specifically designed for customers who powder coat their products, providing up to and beyond 1000 hours of salt-spray corrosion proofing. Independent Laboratory tests showed Eaton obtaining over **1500 hours of salt-spray protection.**

Envirometal Technologies designed and installed a large EcoJet batch processor to apply our Toran 3 product and enable high throughput capacity. They also relocated and reconfigured the existing conveyor and box oven. They supplied an Airflow in-line cure oven while Eaton organised the relocation of their existing up-to-date Gema powder booth and filtration system.

Eaton's Highbridge operation is their UK rack design centre and they expected limited runs of "specials" together with their development work but they have experienced far higher levels of demand than anticipated and they are flat out all of the time.

The stand-alone batch processor "EcoJet" Toran 3 pre-treatment unit easily handles the required demand and versatility. It is always ready-to go with **no heating** and **no waste** to manage, **no titration** or other management or cleaning. Toran 3 is not a VOC and there are **no harmful emissions.**

Toran 3 **degreases** and **polymer coats** all metals in **one simple, heat-free step.** There is no emission of CO₂, N₂O or SO₂. All oil and grease is dissolved off the metal and reintegrated back into the polymer coat formed, therefore eliminating the need to rinse and no creation of sludge. Furthermore, there is no wasted product as any drip off is collected and reused. The tank is merely topped up with Toran 3 as and when required, proving to be very cost effective. All of these features are unique to the whole range of Envirometal Technologies' pretreatment products.

How the Plaforization™ system benefits our customers:

- Cost savings (no heat, no water, no waste disposal)
- Improved corrosion protection compared to conventional phosphating
- No monitoring, titration, emptying or cleaning required
- Minimal environmental impact
- One simple and stable system

If you think this innovative system could be right for your process please have a look at our website.

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