

Total clarity in aerospace MRO consumables management

Knowing when a product has reached the end of its shelf life is not always easy in aviation. So it's no surprise that the industry wastes more than 30% of consumables and time-expiring products purchased for use in aircraft manufacture and maintenance repair and overhaul (MRO).

Consumable products are a critical contributor to airworthiness. As part of aircraft manufacture or MRO greases, lubricants, sealants, adhesives, resins, paints, engine-wash compounds, hoses and O-rings have comparatively straight forward applications. But as hard time products, their shelf life management is often far more complex.

This is important in avoiding the use of a time-expired product, lost time and re-working the accelerated attrition and replacement of parts, aircraft on the ground (AOG), and through to the fundamental integrity of the product.

Avoiding spillages and the realities of storing lubricants and paints can make use by, opening or mixing dates and batch numbers, difficult to identify. If they can't be confirmed as within shelf life and suitable for use, the only safe thing to do is to discard them.

In providing an immediately visible visual reference of shelf life or how long a product can be used from opening or mixing, the UWI Label

eliminates risk, reduces wastage and supports continuing airworthiness management and maintenance.

The UWI Label represents an opportunity for aircraft manufacturers and base and line maintenance teams to deliver more efficient management of shelf life limited and hard time products, reducing waste cost and supporting safety management systems and compliance.

In applying the UWI Label at the point of manufacture, it also creates new opportunity for consumable product manufacturers to support this process, adding value to their product portfolios and driving product differentiation. By supporting their customers in managing consumable products more effectively, the UWI Label creates an opportunity for consumable manufacturers to increase the value proposition of their ranges, helping them stand out in a crowded market and increase repeat sales.





Find out how UWI can help you

- ✓ improve safety
- ✓ reduce waste
- ✓ improve efficiency

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Innovative technology

The UWI Label is a reassuringly simple, easy to use, yet highly-effective smart label technology, which can be used to track the shelf life of a range of hard time, consumable products.

Easy to use

The UWI Label is made from a highly flexible, paper-like composite material. When pre-applied, the label is triggered automatically at the point of opening, or at the point that it's removed from backing paper when applied manually.

Active indicator panels progressively turn green as each time segment elapses, tracking the product shelf or use-by life to the point that it needs to be discarded, as indicated by a universally recognised red indicator.

Improves safety

Improper use of substandard consumable products can have potentially catastrophic consequences for you and your business. Working alongside your current processes the UWI Label substantially reduces the many risks associated with the use of time-ex products, providing an additional barrier to human error as part of aerospace manufacture, base and line maintenance and Safety Management Systems.

Broad application

The UWI Label can be applied manually as part of the stores management process or during manufacture. It can be applied in refrigerated or high ambient temperatures.

Tailored timescale

Timeframes are pre-set at the point of manufacture using microfluidic technology. This can be from minutes, hours, days, weeks and up to three months. The label can also be set to longer periods, subject to further UWI Technology research and development and validation.

Versatile design

A highly-flexible product, the UWI Label can be designed and positioned to reflect and complement an existing brand identity.

Aiding compliance

The UWI Label supports the compliance process, reduces risk and cuts waste in aircraft manufacture and MRO.



Founded in 2009 by CEO and inventor of the UWI Label, Pete Higgins, UWI Technology has since won a raft of awards in recognition of its technical and commercial developments from organisations including: PWC Scotland, Barclays, NESTA, SMART Scotland and Scottish Enterprise.

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Aircraft manufacturer and MRO

The patented UWI Label reduces the wastage of short shelf-life products and can also be used to record:

- Time from opened
- Pot-life: when the reacting composition was mixed, how long the joining and binding process takes and how long it can be used for
- Multi-stage and time dependent mixing
- Re-tested products

Aircraft consumable manufacturers

Applied using standard labelling technologies, the UWI Label allows consumable manufacturers to support their customers' management of shelf life limited and hard time products:

- Improves safety: improper use of consumable products can have potentially catastrophic consequences
- Reduces waste: support your customers in reducing waste, cost and in improving safety