

# MOTHBALLING

## Standby Equipment & Protective Storage using Enviropeel

There is no point putting equipment into storage or on standby if, when you need it, it cannot be used. This may just be an inconvenience, if the component or machine is not vital to your operation, but it could be disastrous if essential equipment is not available when required.

Machinery can be idle from intermittent use, standby (redundancy), storage for spare parts, or for temporary decommissioning. In every case, making sure it remains fit for use must be an essential part of the planning procedure.

### MOTHBALLING

Variables, such as the economy, military requirements - even changes in fashion - can lead to temporary peaks and troughs in activity. To maintain full capacity during slower periods, machinery may be 'mothballed', placed in storage and protected so it will be ready for action when required.

Depending on the complexity of the equipment, this can involve a

number of procedures. In many cases, however, Enviropeel can provide a complete solution by partially or totally encapsulating vulnerable areas, preventing any deterioration.

### STANDBY EQUIPMENT

A criticality index is often applied to key equipment in any process. This can define monitoring standards and the need for replacement equipment in case of breakdown.

Failure to provide standby pumps, for example, has been the subject of large fines when pollution has been caused by pump maintenance or breakdown. And costs from stalled production, because of the failure of critical components, may be substantial.

- 1 **Environmentally friendly - re-usable, recyclable and non-toxic**
- 2 **Used extensively in Australia, New Zealand, Europe, Asia and the Americas**
- 3 **On offshore platforms, steel plants, mining equipment and gas transport vessels**
- 4 **Easy to apply - clean and simple to remove**

Below: After three years lying outside, a gear shaft shows no sign of deterioration once the dirt-encrusted Enviropeel is removed.



**ENVIROPEEL**  
THERMOPLASTIC SYSTEMS

Above: A large Enviropeel-protected component is in stark contrast to the unprotected steel in the background.

Below: If operational equipment is allowed to deteriorate like this, there is a good chance that your asset will become fit only for the scrapyard.



Above and below: Enviropeel protected equipment and components plus application of Enviropeel to stored equipment.



The ability to provide cost-effective long-term protection for standby assets is an important part of Enviropeel's role in the provision of high quality active asset protection.

**PROTECTIVE STORAGE**

Sharing some of the characteristics of mothballing, protective storage is designed to ensure that strategic supplies and equipment are ready for use when required.

In Australia, failure rates for equipment stored for installation on mining conveyors was over 40% prior to the use of Enviropeel - after the use of Enviropeel began, the failure rate dropped to zero! On the same equipment, once installed, replacement rates were as high as every nine months. Following the introduction of Enviropeel, more than four years have passed without a single failure.

**HOW DOES IT WORK?**

Enviropeel works in two ways. First, because it is a sprayable thermoplastic coating, it provides a perfectly fitting, one-piece, encapsulating barrier coating on any shape or size of substrate, preventing ingress of moisture or contaminating agents.



Secondly, built-in inhibiting oils that are constantly released on to the inner surfaces of the encapsulation provide constant corrosion protection.

Easy to strip off, non-toxic, reusable and recyclable, Enviropeel is the ultimate environmentally-friendly way to ensure the protection of all your vulnerable assets.

**HOW IT WORKS**

Using the example of the gear shaft shown overleaf, here is a summary of the main protection mechanisms.

- 1 Because Enviropeel is liquid when it hits the substrate, it fills every cavity and fits every contour perfectly, as you can see from the profile right in the peeled-back material.
- 2 The carbon steel surface is gleaming with deposits from the built-in corrosion-inhibitor.
- 3 Exposure to the harsh NW Australian coastal environment, with salt laden atmosphere, high temperatures and a high iron content in the ever-present dust has had no effect on the protective strength of Enviropeel.



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