



News Update

Newsletter Issue No. 8

DRILL RIGS Intercept protected



Shipping company, **Paccon Logistics and Geodis Wilson Pty Ltd** requested **UnderRaps®** to provide corrosion and shipping protection to four drill rigs wrapped ready for sea transport to Africa.

The rigs were wrapped in Corrosion Intercept® shrink film and a second layer of 200um Power shrink film for extra UV protection.

The project was carried out on Fremantle dock over two days. Customs inspection windows as well as access to lifting points were incorporated.



UNDER-RAPS™ Flying High

Under-Raps™ and its East Coast agent, **Integra Packaging** have just completed the packaging of 10 Super Seasprite military helicopters and their components so that they can be shipped back to the USA.

A major part of this project has been protecting the aircraft with a specialised anti-corrosive shrink-wrap.

A project like this has never been done before in Australia. The only project that we believe rivals this to-date is when US Marines used Armorshield+ to wrap 24 CH-6s.

Sea voyage challenge

Kaman Aerospace, which shipped the 10 helicopters to the United States from the Naval Air Station at Nowra, had to ensure that the aircraft and the sensitive equipment fitted to them were adequately protected during transit to and from the ports at either end of the journey as well as during the sea voyage. The aircraft needed

to be wrapped in a manner that provided roll on/roll off and tie down capability.

Anti-corrosion protection

Corrosion Intercept® technology was selected by Kaman to wrap the aircraft to provide corrosion protection during transit to the USA. The preparation task was successful, with all ten aircraft encapsulated within a three day period.



OUTDOOR PRESERVATION

This Woodside Pig launcher unit has been stored **OUTSIDE** in all weather conditions since March 2004.

It can be put into service almost immediately with no expensive re-commissioning

FREE UP YOUR SHED SPACE!



Website: www.underraps.com.au



Under-Raps™ is pleased to announce the appointment of Northern Conveyors in South Australia to represent the Under-Raps™ product range, including the Corrosion Intercept® anti-corrosion products.

Northern Conveyors were sold on the technology as it fitted in with the development of a line of engineered skids and covers etc incorporating the Intercept technology for the mining and heavy industry sector.

These are mainly targeted at rotatable spares and high business risk exposure components.

Example:

It's the same old story, anyone can whack a skid together, not anyone can engineer it to suit a whole of life cycle for that material.

The big sell is the manual handling risk reduction throughout the whole repair process and the ability to meet or exceed any transport regulation issues.

The main aim is to have an item that is Fit For Purpose when required.

As part of that process Northern Conveyors are promoting and offering services to enable a complete maintenance material management package.

Northern Conveyors

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A protection package for Ausdrill and Air Drill's Schramm rig



Air Drill Schramm and Ausdrill are diversified mining and services companies providing leading edge services in mining, drill & blast and exploration.

Under-Raps™ has had a long relationship with Ausdrill, wrapping large items in Corrosion Intercept® for protection during shipping and transport.

This rig was a combined effort - with Air Drill supplying the rig and Ausdrill putting the package together on the truck.



Action Packed working with Caterpillar to solve short term corrosion issues



Under-Raps™ Tasmanian representative Action Packed has been working with Caterpillar in Bernie Tasmania, Australia, which designs, constructs, and distributes underground mine machinery such as mining trucks, LHD Loaders, haulage trucks, common power train components and support infrastructure.

The machinery and equipment is used in most underground mines in Australia. Corrosion Intercept® canvas and shrink wrap are being trialed to prevent corrosion during the reman process.



First trial of encapsulation for Barrow Island

Chevron and its Joint Venture partners have adopted a goal of no introductions, meaning that the primary focus of its Quarantine Management System (QMS) is to prevent non-indigenous species from being transported to Barrow Island.

Under-Raps™ has been working with Chevron, in accordance with the requirement of its QMS over the past 12 months, to come up with innovative ways to eliminate potential quarantine-related issues.

Why is Quarantine Management Necessary?

It is necessary to prevent the introduction of animals and plants that are not native to Barrow Island. Why? Because the introduction of non-native (or 'non-indigenous') species could lead to unintended and possibly detrimental impacts on biodiversity on the island.

Such impacts may manifest as competitive exclusion, predation, or habitat modification, with the potential loss of biodiversity.

Quarantine is considered a management tool pivotal to the securing of the conservation values of this Class A Nature Reserve. Barrow Island, its biodiversity and the associated conservation values have been effectively secured and managed as part of a longstanding Chevron Australia oil production asset.

Quarantine management was first implemented by operators of the oilfield in the 1960s and, through continuous improvements over time, has provided an effective means of managing and protecting the conservation values of Barrow Island.

Thank you UnderRaps...

For your service and products. We had a major shipment of Bell 205 & 2 blades wrapped with Intercept shrink film at port of Kobe.

This cargo was carried as deck cargo to the port of Brisbane Australia. The goods were in good condition and no damage and/or corrosion were found.

**Miyuki Lockland,
Project Co-ordinator
Deugro Projects Australia Pty Ltd**



Gas Drive Systems Enerflex

Providing gas compression and power equipment and service to the Australian compression and power generation industry.

Gas Drive Systems is a major provider of after sales support and service for gas compression, power generation and co-generation equipment to Australia, the South Pacific and Southeast Asia. UnderRaps® Corrosion Intercept Shrink Film was chosen to protect this item for long term storage.



Website: www.underraps.com.au

What is Corrosion Intercept[®]?

How is it made?

Answer: A highly reactive copper is reacted into a polymer structure. The copper is chemically bonded into the plastic so that it cannot move or agglomerate.

The copper allows the plastic to act like a solid sheet of high surface area, highly reactive copper - or to look at it another way; it allows a copper sheet to act like a plastic.

So can the plastic be heat-sealed?

Answer: Yes, the Intercept materials only marginally affect heat sealing.

How does the Intercept Technology stop corrosion and rubber degradation?

Answer: Intercept does not outgas. It acts in three ways to stop corrosion:

Intercept acts as a very efficient reactive barrier to gases trying to migrate into the closed container or bag. At normal levels it takes sulphur 10 years to move through 1mm of Intercept.

Similar tests were run at DuPont on chlorine - the results showed that it took 15 years per mm of Intercept for the chlorine gas to move through the film.

The gases that cause corrosion are all reactive and they will react with and be permanently neutralised by the Intercept.

Intercept cleanses trapped air within a sealed or closed environment: within hours the inside environment is free from corrosive gases.

Intercept helps protect against moulds and mildews: moulds cannot grow in direct contact with copper.

How did it get its name?

Answer: Static Intercept and Corrosion Intercept are registered trademarks of EMI. When Lucent Technologies (then AT&T) Bell Labs created and patented the technology they referred to it as Reactive Polymer.

This was a good scientific name for it, but we wanted something a bit more expressive and better from a marketing perspective, hence we called it Intercept Technology.

So are there two types of Intercept, or even more?

Answer: Yes, there are two types of Intercept. Corrosion Intercept (copper color) was developed first.

It provided great corrosion protection but was not effective against Electrostatic Discharge (ESD).

Static Intercept (Dark Brown) has the same chemistry as Corrosion Intercept, but it also has ESD properties such as permanently anti-static, non-tribo charging, humidity independent, non-outgassing, etc.

However, a new form has also been developed, which combines non-degrading, non-changing, reusable shielding with the cleanliness, recyclability and corrosion protection of Intercept - called RIBS.



Meet Eric Collinson

Eric's association with Under-Raps™ comprises some six years of involvement on the project design and application of a number of large encapsulation jobs.

Eric has spent over 20 years in various IT Project management roles in the UK and Australia - the last 5 years in the broadcasting industry in a Project Management/Sales role.

Agent

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