

News Update

UNDER-RAPS™

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UNDER-RAPS™ MINING AND OFFSHORE PROTECTION



Corrosion Intercept® protects heat exchange elements

Hismelt, (High Intensity Smelting, is the world's first commercial direct smelting process - making premium quality iron directly from iron ore.

The Under-Raps wrapped recompression chamber

Divex Asia Pacific Pty Ltd is recognised as the global industry leader in the design, supply, manufacture, research and development of diving and subsea equipment for commercial, professional and defence divers.



Subsea Pumps wrapped for Woodside Energy Ltd

Framo Engineering is the world leader in subsea multiphase pumping technology.

The Framo Subsea Multiphase pump is designed with high emphasis on simplicity, robustness and retrievability. The pump architecture is based on well proven Framo

philosophy and experience applied in a large number of existing installations in deep waters worldwide since 1994, with tie-back distances varying between 1 km and 10 km.

The pumps were wrapped in Intercept Shrink Film and an extra layer of 200 um shrink-film for additional UV protection.

Switchrooms wrapped and trucked to FMG

Plummers Industries is a family owned, Western Australian company established in 1957, initially as a spring manufacturer and then gradually expanding into sheet metal manufacturing and fabrication.

The Switchboard Division began in 1977 as a natural extension of the sheet metal business and now accounts for more than half of the company's annual turnover.

Further expansion in 1998 saw the opening of Plummers Industries Queensland, with a state manager and fully operational factory.



Plummers Industries switchrooms were wrapped in 200 um Power-Shrink Film and trucked to Fortescue Metals Group Ltd Cloud Break in the Pilbara.



Website: www.underlaps.com.au



Supply chain innovation & protection

Under-Raps™ now represented by Integra in Qld and NSW

Under-Raps™ has announced an agreement with Integra Packaging to represent the Under-Raps products and protective wrapping services in Queensland and NSW.

Integra Packaging has extensive skills in protecting equipment for storage or shipment.

Integra recently completed its first project - wrapping vibratory screens for Schenck Process in NSW.

Integra offer a large range of services including:

- International and domestic export packaging and crating needs
- Fumigation where requested
- Export timbers used in our products
- Access to large or small cranes for those awkward jobs
- Local market crating and packing
- Skilled personnel on site
- WPH&S approved signage
- Engineer-approved drawings for specialised jobs
- Shipping container packing
- Working closely with Australian Quarantine & Inspection Services (AQIS)
- ISPM15(AQIS) Certification



Under-Raps and the Integra sales team



Roger Till, Integra's managing director, hands on

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Shrink wrapping for luxury boats

Riviera is Australia's largest and most awarded luxury boat builder and exporter of Flybridge Convertibles, Sport Cruisers and Sport Yachts.

The Company, based in Coomera, South-East Queensland, produces about 350 boats each year at the largest pleasure boat building facility in the Southern Hemisphere.

More than 50 percent of this production is exported to a growing dealer network that spans more than 30 countries across the globe.

Under-Raps constructs the Armorshield+ shrink wrap shipping covers for Riviera at its Perth loft.

Riviera fits and shrinks the covers in-house. The covers are fitted with clears so the boats are able to be motored to the port for loading and export.



Aircraft wing protection

A leading aerospace company is salt fog testing an Intercept Fabric cover for protection of aircraft wing shipments.

FPM (the American Intercept Fabric manufacturer) provided five sample bags made to be weather tight and with desiccant pouches. Results will be made available soon.



AVLB Intercept Protected

The AVLB is a folding portable bridge that is transported on the top of a tank chassis. It is protected with Intercept canvas incorporating a reactive copper in the polymer, which sacrificially removes the corrosive gases that cause corrosion.

Intercept does not use or emit chemicals, VOC, VCI, or any contaminants. The intercept cover is currently going through a four-company comparative test in Korea.



Under-Raps supplies the total storage solution

We have just delivered the first of our new range of military and mining storage containers. The containers are constructed in Perth and the Intercept canvas provide the total solution for corrosion protection.

Under-Raps is currently in the final stages of a two year trial for the Singaporean military.



X-10D Flower protection technology breakthrough!

Bell Labs has determined a way to transform normal plastic into a high gas barrier material utilising copper reacted into the plastic chain.



The new technology means:

- Reduced shipping costs by allowing for the use of slower shipping, with confidence that the quality and grading level will be maintained.
- Importantly, the new system neutralises and absorbs SO₂ and ethylene oxide gases and protects against mold and mildew.

- We have all seen "new technologies" come into the market, promising amazing results, but then providing disappointing results -- **this will not happen with our technology!**
- The X-10D Technology (developed and patented by Bell Labs) has been tested successfully in laboratory settings as well as in real shipping trials by growers in South Africa and Zimbabwe.
- X-10D has been proven to work successfully in maintaining quality in real shipping conditions.
- X-10D allows flowers protected in our sleeves or coated boxes to be protected from degradation caused by ethylene oxides, sulfur (SO₂) and other atmospheric pollutants, mold and mildew.
- The unique colour and look to the product is due to its multi-purpose application:
- The copper coloured material reacts away and permanently neutralises SO₂, ozone, and other detrimental atmospheric pollutants as well as helping to control mold, mildew and petal blackening.
- The black color material reacts with and absorbs ethylene gases, even at low and/or very high concentrations.
- X-10D is available in custom sizes and shapes, as well as standard sizes and configurations.
- X-10D saves money on costly quality downgrades and returns.
- X-10D is manufactured by Oerlemans Plastics BV (The Netherlands), a name well known and trusted, for its strong emphasis on high quality and product innovation. Product is also being manufactured in the USA.

Flowers need special protection -- Now they can be protected with space age technology

Meet David



David Calder Role - Sales and Marketing

Dave joined Under-Raps one year ago and provides a wealth of experience in:

- Roof construction and plant design.
- Packaging and Shipping of art work and antiquities.
- Managing director in the wholesale industry for 27 years
- Under-Raps representative of the Australian Corrosion Association

IN THE NEXT EDITION:

- UNDER-RAPS™ Engine wash for aircraft "NEW PRODUCT"
- Intercept Solo cardboard corrugate has arrived
- Intercept Foam will react with and neutralise the atmospheric pollution within cabinets or other storage areas. The Intercept Technology has the ability to absorb and neutralise gases (including ozone, nitrous groups, formaldehyde, sulfur compounds, chlorine compounds, gaseous acetic acid and more)
- High Pressure Water mist System "NEW PRODUCT"
- Under-Raps welcomes new Victorian agent

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