

UNDER RAPS PTY LTD
www.underraps.com.au

Under-Raps

Sales Catalogue 2008



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- ® Armorshield
 - Boat / Aircraft Shipping Covers
- ® Powershrink
 - Industrial UV-Resistant Shrink-Films
- ® Intercept
 - Anti-Corrosion Shrink-Films and Canvases

Welcome to Under-Raps

Transport Solutions

Under-Raps® specialises in the supply and application of Industrial Grade plastic films for Transport and Storage applications. Sourcing direct from the major plastics manufacturers and using only first-grade ingredients (“virgin oils”) the plastic films are manufactured to our own high technical specifications, giving superior durability and strength.



Core Products

The shrink-wrap plastics have a number of important characteristics that make them superior to older techniques using tarpaulins or canvasses. The shrink-wrap plastics fit more tightly around objects, reducing or eliminating wear and tear in windy conditions. The plastics can be welded together onsite through the use of handheld heat guns, and combined with the use of the recommended shrink tapes, they can offer barriers to water, dust, vermin and other contaminants.

Consumables, Tools and Onsite Services



Our goal is to service all customers, large or small. We encourage customers to start small; we will visit your site to wrap your items as and when you need. We believe you will quickly recognise the improvements for transport and storage, and once your end customer starts to appreciate the improved quality of the goods arriving, you will use the process and materials more often. We offer training and we sell the tools and consumable to get your workshop or despatch team up and going, wrapping your own equipment in-house. Our Start-Up Kit on page 6 of this catalogue provides the basic tools and consumables to get you up and going quickly.

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Exclusive Importers - Static Intercept and Corrosion Intercept



Under-Raps ® are the exclusive agents for the Corrosion Intercept ® and Static Intercept ® range of products within Australia and New Zealand. The Intercept technology was developed by one of the world's leading research companies, Lucent Technologies (now Alcatel Lucent) in the USA, for use in their electronics and telecommunications manufacturing industries. The patented technology using a copper copolymer film has been used in a huge range of applications, from covering and protecting military equipment (fighter jets, helicopters, etc) through to special purpose archival products protecting artworks, antique books and documents as well as more traditional metal objects. We can advise you on which Intercept product will provide the best protection for your goods of any size and shape.

Broad Range of Industries and Applications

With a broad range of industries in our portfolio, we are proud to be suppliers to Australia's leading companies. We service the oil, gas and mining industries from our warehouse in Perth, through our agents Integra Packaging in Queensland, NSW and Victoria and through our teams of onsite applicators. Our plastics can be used for a wide variety of applications, ranging from protective wrapping for your valuable products and sensitive equipment, through wrapping of large objects for transport and shipping, up to creating large temporary shelters and structures for activities such as dust and lead abatement and large-scale fumigations (houses, boats, etc).



Caring For The Environment



Under-Raps is committed to providing products that impose a minimum burden on the environment. Our plastic films are manufactured from virgin oils, we do not use recycled plastic. Since the plastics are of a high quality, they themselves can be recycled through bulk plastic recycling operators.

Additionally, the majority of our plastic films are Low Density Polyethylene (LDPE), containing no chlorine or other toxic chemicals, allowing for safe disposal in landfills or approved incinerators. They are completely safe for handling, requiring no special precautions such as gloves for handling, and there are no toxic chemicals requiring special clean up for operators after handling. The Corrosion Intercept range of products was awarded the prestigious German Environmental Prize for "New Environmentally Safe Methods for Corrosion Protection" in 2005.

Are your current practices preventing:

- Corrosion?
- UV Rubber Deterioration?
- Mould, Mildew, Dust?

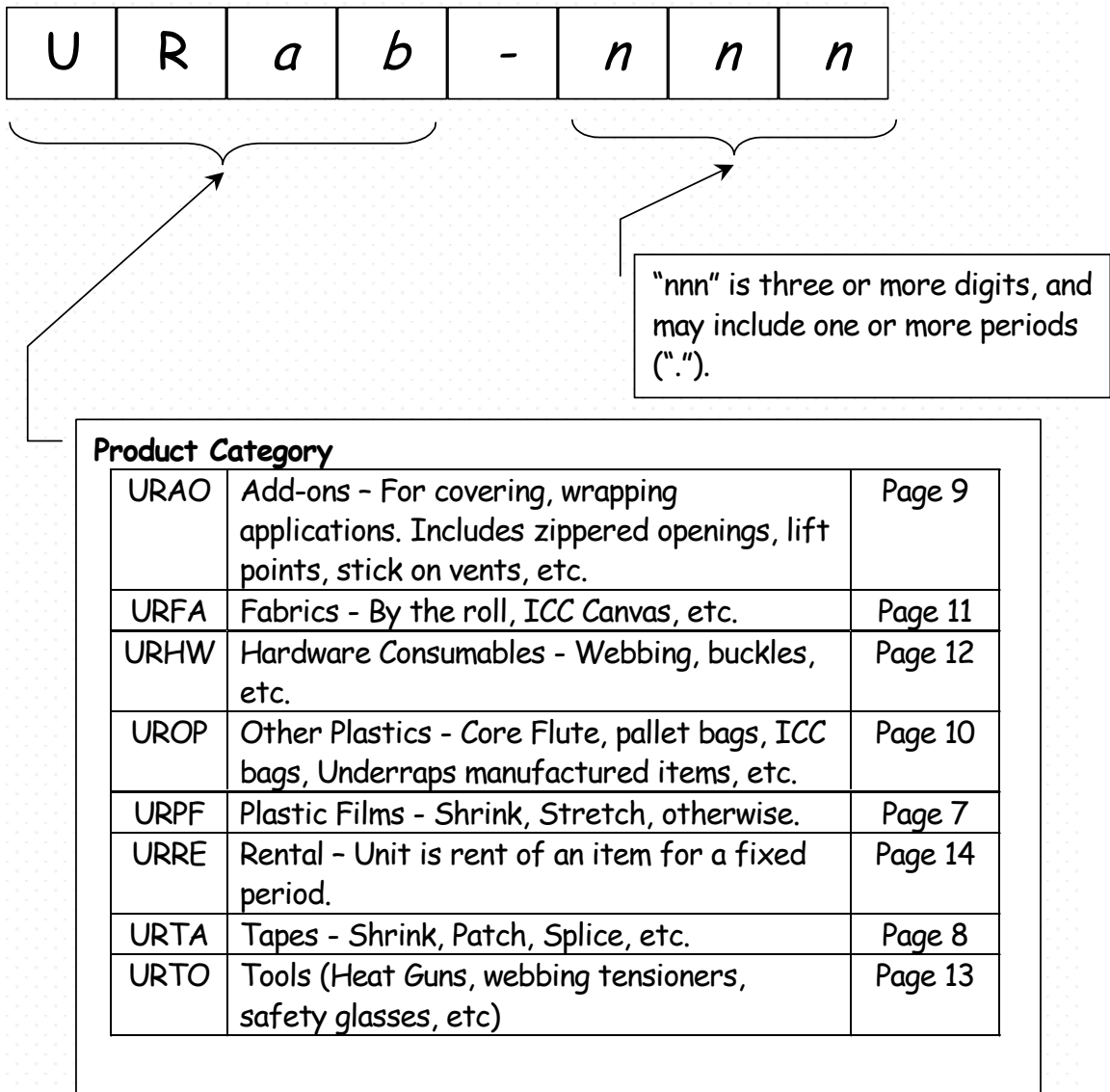
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Order Codes

Our products are grouped by major applications.

The diagram below summarises our order codes.



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Start Up Kit



An operator using a Big Red with extension to shrink large areas.

The Under Raps Start Up Kit

Provides the basic tools and materials to start using Under Raps plastic films for covering and wrapping all your items, from small to large.

The Kit includes basic information on a CD including demonstration videos and Material Safety Data Sheets for Under Raps' Industrial Plastics.

Basic Start Up Kit

The Basic Start Up Kit provides everything needed to start wrapping and encapsulating most objects. It includes the basic tools plus initial quantities of consumables.

Extras for Special Applications

Some applications require specialized tools or consumables. The common items to be considered when setting up for using the Underraps system are listed here.

Please call us to discuss your particular needs.

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Basic Start Up Kit

ORDER CODE	Description	Qty
URPF-110	Powershrink film on roll – 6m x 50m x 200µm 12month UV-resistant	1
URPF-010	Corrosion Intercept ® Anti-Corrosion UV-resistant shrink film on roll – 6.09m x 45.7m	1
URPF-020	Corrosion Intercept ® Anti-Corrosion stretch film – 475mm x 304m x 38µm	1
URTA-110	Shrink-tape – 144mm x 55m	1
URTA-135	Shrink-tape – UV-resistant – 48mm x 45m	6
URTA-120	Shrink-tape – 48mm x 55m	4
URTA-140	Splice tape (double-sided) – 48mm x 55m	2
URTO-010	RIPACK 2200 Heat Gun (includes regulator and hose, requires LPG gas bottle)	1
URTO-040	Pair Left Hand Welding Gloves	1
URTO-090	Portable Roll Dispenser - Suitable for rolls of plastic film up to 165cm long and 60cm diameter.	1
BASIC START UP KIT TOTAL PRICE		

The Basic Start Up Kit also includes (free of charge):

- Armorshield ® storage bags for the Intercept Anti-Corrosion plastic films (shrink and stretch).
- Information CD containing instructional videos and Material Safety Data Sheets (MSDS) for the plastic films and tapes.
- Sample “Do Not Cut” stickers for use on Intercept wrapped objects.

Extras for Special Applications

ORDER CODE	Description
URTO-020	BIG RED Heat Gun – Includes 75cm extension.
URHW-080	Woven strapping (dual read strands, 900Kg breaking strain) – 19mm x 500m – Use to create tie-downs, aprons, etc
URTO-060	Tensioner tool for 19mm strapping (URHW-080) – Use with 19mm buckles (URHW-010)
URHW-010	Buckles for 19mm strapping (URHW-080) – Pack 100
Call	Inspection / Lifting Point Pre-sewn zippered openings – various sizes.

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Plastic Films

Unless otherwise noted, all our plastic films are UV-resistant for at least 12 months of outdoor exposure. Our films are made from Low Density Polyethylene (LDPE) providing an effective barrier to moisture.

Large surface area films are packaged as folded sheets rolled onto a core for easier handling and dispensing. Under-Raps recommend the use of either a fixed roll dispenser or our mobile film dispenser (URTO-090).



Heat shrink films can be shrunk and welded using hand-held heat guns. For small items, electric 2000W heat guns are suitable. For larger items, Under-Raps offers the Ripack 2200 (URTO-010) and the Big Red Plus Extension (URTO-020).

Item Number	Description			
URPF-010	Intercept (R) Anti-Corrosion Heat Shrink Film 6.09m x 45.7m			
URPF-020	ICC Anti Corrosion Stretch Film 45.7cm x 304m x 38um			
URPF-045	Builders Film - Black 2m x 50m x 200um			
URPF-065	Clear Continuous Tube 135mm x 80um x 500m LDPE + NAT			
URPF-085	Low Slip No Shrink 3.5m x 50m x 150um			
URPF-100	Powershrink UV Plastic Film 12m x 50m x 200um			
URPF-110	Powershrink UV Plastic Film 6m x 50m x 200um			
URPF-120	Powershrink Ldpe Opaque White + UVI (12mths) 5m x 50m x 200um			
URPF-125	Powershrink Clear UV 4m x 50m x 180um C/Fold			
URPF-130	Stretch Film 500mm x 400m x 23um			

Tapes

Under-Raps sells tapes specifically for use with the heat shrink films when wrapping up objects or building temporary containment structures. Each tape has different characteristics determine where and how the tape is used. The main characteristics are:

- **Glue Strength?** – Glue strength is important. High strength glues may be hard to remove or leave residues when removed. Low strength glues may not be strong enough to withstand transport conditions.
- **Waterproof?** – Important for transport and storage, especially for sealing welded plastic seams.
- **Low Residue?** – How much glue residue does the tape leave when removed? For wrapping applications, low residue is important, especially when sealing plastic edges to painted surfaces.
- **UV Resistant?** – UV resistance is important for medium- to long-term open air storage.
- **Heat Shrink?** - For heat shrink applications, can the tape also be shrunk?

Tape Characteristics

Tape	Glue Strength ?	Waterproof ?	Low Residue ?	UV Resistant ?	Heat Shrink ?
PVC Duct Tape (URTA-090)	<i>Med</i>	<i>Yes</i>			
White Shrink Tape (2", 4" and 6") (URTA-110, URTA-120, URTA-130)	<i>V High</i>	<i>Yes</i>	<i>Yes</i>		<i>Yes</i>
UV White Shrink Tape (URTA-135)	<i>High</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>
Sealing Tape (URTA-100)	<i>Med</i>	<i>Yes</i>			
Double-Sided Tape (URTA-140)	<i>Med</i>	<i>Yes</i>			

Item Number	Description			
URTA-090	PVC duct Tape 48mm x 30M			
URTA-100	Sealing Tape 100mmx66m			
URTA-110	Shrink Tape - 144mm x 55m			
URTA-120	Shrink Tape 48mm x 55m			
URTA-130	Shrink Tape 96mm x 50m			
URTA-135	UV White Shrink Tape 96mm x 50m			
URTA-140	Splicing (Double-sided) Tape 48mm X 55m			

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Add-Ons

Under-Raps manufactures a range of “add-on” products for use when wrapping objects or building temporary containment structures. The most common of these add-ons are the zippered windows of varying sizes.



The zippered windows are used in a wide variety of situations such as allowing access to lifting points (avoiding the need to cut into the plastic when hoisting), inspection ports to view gauges or for customs / quarantine inspections and even up to full man-access points.



The straight zips sold in pairs (URAO-020 and URAO-050) create roll-up zippered doorways.

Application of the zippered windows and doors is simple, they come with double-sided tape ready for instant application to taut pre-shrunk plastic film.

Item Number	Description			
URAO-020	Door - 2 x 2m pre-sewn Zips			
URAO-050	Door - 2 x 3m Pre-sewn Zips			
URAO-060	Stick on Vent			
URAO-070	Zippered Lifting point / Inspection opening 0.6m x 0.3m			
URAO-075	Zippered Window / Inspection Port / Lifting Point 0.25m x 0.12m			
URAO-080	Zippered Window / Inspection Port / Lifting Point 0.8m x 0.6m			
URAO-100	Zippered Window / Inspection Port / Lifting Point 1.0m x 0.6m			
URAO-110	Zippered Window / Inspection Port / Lifting Point 1m x 1.2m			
URAO-120	Zippered Window / Inspection Port / Lifting Point 2.0m x 1.0m			
URAO-130	Pre-sewn Zippered Window / Door / Lifting Point 1m x 0.2m (Banana)			
URAO-210	Do Not Cut Vinyl Sticker - Sml			
URAO-220	Do Not Cut vinyl sticker - Lge			

Other Plastics

This section includes are a wide range of useful products:

- Intercept pre-sewn plastic bags in standard shapes and sizes.
- Intercept pre-sewn cylinder bags for use in applications such as hydraulic rams.
- Intercept bags, including ziplock and anti-static (SDAC).

Item Number	Description			
UROP-020	Shrink pallet bags on roll - 25 bags per roll 1850mm x 1245mm x 1195mm 150um LD Natural (Clear) plus UVI (12 months)			
UROP-022	Shrink drum bags on roll (100 / roll) Size: 1250mm x 500mm x s/g 475mm x 150um Film: Natural + UVI BOR			
UROP-500	Intercept Corrosion Control (ICC) anti-corrosion 40ft Container Liner			
UROP-501	Intercept Corrosion Control (ICC) anti-corrosion 20ft Container Liner			
UROP-510	Intercept Corrosion Control (ICC) Bag 180cm x 180cm x 60cm - w/o base			
UROP-511	Intercept Corrosion Control (ICC) Bag 180cm x 180cm x 60cm - with base			
UROP-520	Intercept Corrosion Control (ICC) Bag 145cm x 115cm x 60cm - w/o base			
UROP-521	Intercept Corrosion Control (ICC) Bag 145cm x 115cm x 60cm - with base			
UROP-530	Intercept Corrosion Control (ICC) Bag 150cm x 150cm x 60cm - w/o base			
UROP-531	Intercept Corrosion Control (ICC) Bag 150cm x 150cm x 60cm - with base			
UROP-600	ICC Cylinder Bag Large (2.2m Circum x 1.2m L) - Pack of four (4) bags.			
UROP-601	ICC Cylinder Bag Large (2.1m Circum x 1.5m L) - Pack of four (4) bags.			
UROP-603	ICC Cylinder Bag Large (2.0m Circum x 1.5m L) - Pack of four (4) bags.			

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Other Plastics (cont.)

Cylinder bags provide a fast and easy way to protect cylindrical equipment, perfect for hydraulic rams of all sizes.



Item Number	Description			
URO-604	ICC Cylinder Bag Large (2.0m Circum x 1.0m L) - Pack of four (4) bags.			
URO-606	ICC Cylinder Bag (1.9m Circum x 1.5m L) - Pack of four (4) bags.			
URO-607	ICC Cylinder Bag (1.9m Circum x 1.0m L) - Pack of four (4) bags.			
URO-608	ICC Cylinder Bag (2.2m Circum x 1.2m L) - Pack of four (4) bags.			
URO-609	ICC Cylinder Bag (2.2m Circum x 1.2m L) - Pack of four (4) bags.			
URO-610	ICC Cylinder Bag Medium (1.4m Circum x 0.7m L) - Pack of 4 bags			
URO-611	ICC Cylinder Bag (1.6m Circum x 1.0m L) - Pack of four (4) bags.			
URO-612	ICC Cylinder Bag (1.6m Circum x 0.8m L) - Pack of four (4) bags.			
URO-613	ICC Cylinder Bag (1.5mm Circum x 1.0m L) - Pack of four (4) bags.			
URO-618	ICC Cylinder Bag 1.0m Circum x 0.8m L- Pack of 4 bags			
URO-620	ICC Cylinder Bag Small (720mm Circum x 520mm L) - Pack of 4 bags			
URO-630	ICC Cylinder Bag (57cm Circum x 40cm L) - Pack of four (4) bags.			
URO-640	ICC Cylinder Bag Tiny (360mm Circum x 360mm L) - Pack of 4 bags			
URO-641	ICC Cylinder Bag (28cm Circum x 40cm L) - Pack of four (4) bags.			
URO-643	ICC Cylinder Bag (17cm Circum x 41m L) - Pack of four (4) bags.			

Other Plastics (cont.)

Intercept bags provide the fastest and easiest method to protect smaller machined and electronic items. Options include ziplock or open top bags, and optional anti-static (SDAC) protection. Under-Raps carries the bags listed here, and we can order any size to suit your requirements for minimum orders of 5,000 bags.



Item Number	Description			
URO-910	3" x 5" Intercept Corrosion Control Ziplock Plastic Bags (Qty: 100)			
URO-915	6" x 9" Intercept Corrosion Control Plastic Bags (Qty: 100)			
URO-920	8" x 10" Intercept Corrosion Control Ziplock Plastic Bags (Qty: 100)			
URO-925	10" x 12" Intercept Corrosion Control Plastic Bags (Qty: 100)			
URO-930	3" x 4" Static Dissipative (SDAC) + Intercept Corrosion Control Plastic Bags (Qty: 100)			
URO-935	3" x 5" Static Dissipative (SDAC) + Intercept Corrosion Control Ziplock Plastic Bags (Qty: 100)			
URO-940	4" x 6" Static Dissipative (SDAC) + Intercept Corrosion Control Ziplock Plastic Bags (Qty: 100)			
URO-945	6" x 8" Static Dissipative (SDAC) + Intercept Corrosion Control Plastic Bags (Qty: 100)			
URO-950	9" x 10" Static Dissipative + Intercept Corrosion Control Ziplock Plastic Bags (Qty: 100)			
URO-955	10" x 12" Static Dissipative (SDAC) + Intercept Corrosion Control Plastic Bags (Qty: 100)			
URO-960	11" x 15" Static Dissipative (SDAC) + Intercept Corrosion Control Plastic Bags (Qty: 100)			
URO-965	15" x 18" Static Dissipative (SDAC) + Intercept Corrosion Control Plastic Bags (Qty: 100)			
URO-970	18" x 24" Static Dissipative (SDAC) + Intercept Corrosion Control Plastic Bags (Qty: 100)			
URO-971	24" x 18" Static Dissipative (SDAC) + Intercept Corrosion Control Plastic Bags (Qty: 100)			

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Intercept Fabrics

Intercept Fabrics combine the advantages of a strong, sewable canvas with the anti-corrosion characteristics of Intercept. Excellent for re-usable applications such as covers for exposed machinery and frequently used equipment in harsh environments.



Item Number	Description			
URFA-100	Intercept Corrosion Control Canvas Fabric Pallet Cover			
URFA-110	ICC Canvas Carry Bag - 50cm x 30cm x 30cm			
URFA-120	Intercept Corrosion Control Canvas Parts Bags (50cm x 30cm x 30cm) - Pack of 10 Bags			

Hardware Consumables

Item Number	Description			
URHW-010	Buckles 19mm Webbing (Pack100)			
URHW-015	Galvinised corner clasps to suit 19mm strapping 55mm x 20mm x 20mm - Carton 2000			
URHW-020	Calico side tie bag			
URHW-060	Strapping 19mm x 500m - dual red strands, 900Kg breaking strain.			
URHW-090	Plastic Pallet - 120cm x 120cm			
URHW-200	TRURAG 5 Kg Carton			

Tools

Under-Raps carries a range of tools used to apply the heat shrink films. We supply two types of heat guns, the Ripack 2200 for welding and shrink small areas of film and the Big Red Plus Extension for shrinking large areas of plastic film quickly.

Item Number	Description			
URTO-010	Ripack 2200 Heat Gun			
URTO-011	Ripack 2200 Heat Gun - Replacement Ignitor			
URTO-012	Ripack Heat Gun - Replacement Spark Lead			
URTO-013	Ripack 2000 Heat Gun - Replacement Ignitor			
URTO-014	Ripack Replacement Hose - length 8m			
URTO-015	LPG Gas Regulator, suitable for Ripack heat guns.			
URTO-016	LPG Gas Flame Arrestor, suitable for Ripack Heat Gun			
URTO-020	Big Red			
URTO-030	Big Red Extension			
URTO-040	Pair Left Hand Gloves			
URTO-050	Rubber Mallet			
URTO-060	Tensioner 19mm webbing			
URTO-070	18mm Economy Snap-Off cutter			
URTO-071	Snap Off Blade 18mm (Tube/10)			
URTO-090	Portable Roll Dispenser - Suitable for rolls of plastic film up to 165cm long and 60cm diameter.			

Rental Items – Daily Rates (*)

Item Number	Description	
URRE-040	Daily Hire - Big Red Heat Gun Plus 75cm Extension	
URRE-050	Daily Hire - Ripack Heat Gun	
URRE-110	Daily Hire - Tensioner 19mm Webbing	

* NOTE: All rentals are subject to Under-Raps' Conditions of Hire. Please contact us for details.

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Under-Raps Product Warranty

All statements, technical information and recommendations contained herein are based on tests Under Raps Pty Ltd believes to be reliable, but the accuracy or completeness is not guaranteed.

It is offered for the purchaser's consideration, investigation and verification. Intercept Technology packaging protects best when stored item is packed clean and dry. The use of desiccant is advised during initial pack out to keep relative humidity below the dew point.

Purchaser assumes all risk of use, storage and handling of the product. Under Raps Pty Ltd warrants the products will be free from defects when shipped to customer. Under Raps Pty Ltd's obligation under this warranty shall be limited to replacement of product that proves to be defective.

To obtain replacement product under this warranty, the Purchaser must notify Under Raps Pty Ltd of the claimed defect within six months after receipt of the product by the end-use customer. All freight charges for replacement of proven defective products shall be paid by Under Raps Pty Ltd when material deficiency has been established. Under Raps Pty Ltd shall have no liability for any injury, loss or damage arising from out of the use, or the inability to use, the product.

Before using, User shall determine the suitability of the product for its intended use, and User assumes all risk and liability in connection therewith.

No representative or recommendation not contained herein shall have force or effect unless in a written document signed by an officer of Under Raps Pty Ltd.

The foregoing warranty is exclusive and in lieu of all other warranties, express, implied warranty of merchantability or of fitness for a particular purpose. In no case shall Under Raps Pty Ltd be liable for incidental or consequential damages.

Nothing contained herein shall be construed as license to operate under, or recommendation to infringe, any patents.



UNDER -RAPS PTY LTD

www.underraps.com.au

2/211 Balcatta Road

Balcatta WA 6021

Phone: +61 8 9240 5978 Fax: +61 8 9240 5979

E-mail: dave@underraps.com.au

Web: <http://www.underraps.com.au>

ABN: 28 117 915 652

All prices and information in this catalogue E&OE and subject to change without notice.

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