## [ TECHNICAL BULLETIN ]

ASTEC WATERPROOFING PRODUCTS AND SYSTEMS

SINGLE PACK RAPID DRY POLYURETHANE SYSTEM



### PRODUCT TYPE

Polyurethane system consisting of a primer and topcoat.



### **DESCRIPTION / USE**

**Uretec-R** is a single pack, rapid dry, moisture curing polyurethane consisting of a primer (Urectec-RP) and topcoat (Uretec R). The finished film is tough and durable, will withstand industrial traffic, exhibits excellent abrasion resistance and resistance to petrol, solvents, oils and greases, dilute acids and alkalis, and oxidising agents.

**Uretec-R** is recommended for coating timber and composite board, interior flooring materials, concrete shuttering and concrete floors. Uretec-R is for use on interior surfaces only.

### **PROPERTIES**

Uretec-R cures to a durable, tough, flexible film which resists petrol, most aromatic and aliphatic solvents, oils and greases, dilute acids and alkalis, oxidising agents and can easily be cleaned with a mop. Whilst the service life of the coating depends upon the severity and frequency of traffic, it is used on surfaces ranging from concrete factory floors carrying fork lift traffic to timber basketball stadium floors.

**NOTE**: REFER TO PAGES 4-6 FOR A COMPREHENSIVE LIST OF CHEMICAL SOLVENT RESISTANCE TEST RESULTS.

Astec Paints are a 100% Australian owned company committed to the research and development of technologically advanced coatings that provide premium durability against our harsh Australian conditions. Our coatings are manufactured with high regard for worker safety and environmental care and will provide you with absolute confidence in long term performance.



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### GENERAL

- Ensure that all surfaces are clean, dry, free of contaminants and structurally sound.
- Ensure that the surface is free of oils and silicones thus eliminating sources of adhesion failure.
- Blast clean bare metal surfaces to AS1627.4 Class 2 where permissible, otherwise clean with a power wire brush.

### **CONCRETE FLOORING**

- Concrete must be clean and dry in sound condition and all loose powdery concrete must be removed.
- New concrete must be 28 days old before coating commences and all traces of curing compound must be removed.
- On or below grade concrete should not be coated if a water problem exists.
- Smooth troweled or surface hardened concrete floors require scarifying to ensure proper adhesion. Acid etching, power grinding [sanding] or sandblasting is recommended to rough the surface.
- To remove grease, oil and other penetrated contaminants, use a commercial grade concrete cleaner or scrub with a strong detergent and rinse thoroughly.

A DDL ICATION	Drimo concrete timber and composite heard surfaces with
APPLICATION	Prime concrete, timber and composite board surfaces with
	one coat of Uretec-RP using a brush or roller and allow to cure
	until the surface is no longer tacky, usually 2 to 3 hours. Apply
	Uretec-R direct from the drum by brush or roller. Apply two
	coats, allowing the product to cure until the surface is no
	longer tacky between coats, usually 3 to 4 hours



## **Uretec-R**

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## LIMITATIONS

Experience has indicated tha Uretec-R is more tolerant than other similar preparations with respect to its stability in half filled covered drums over a period of a few days. However, care should be taken to avoid such situations as it will ultimately lead to the gelling of the un-used product in the drum.





## **CODES USED**

DEGRE	E OF EFFECT		EFFECT		RECOVERY
NE	No effect	so	Softening	R	Recovers
SL	Slight	P	Pimpling	NR	No Recovery to usable film
M	Moderate	В	Blistering	CD	Completely Destroyed
CON	Considerable	D	Discolouration	(1)	Discolouration Remains
SEV	Severe				

AGENT	% STRENGTH	RESISTANCE
Acetic Acid	0.5	NE
Acetic Acid	5	M; SO; R
Acetic Acid	10	SL SO; SL P; R
Acetic Acid	50	SEV SO; B; NR
Acetic Acid - Glacial		CD
Acetone		CD
Ammonia Solution	10	M SO; SL P; R
Ammonia Solution	20	SL SO; SL P; R
Anti Freeze Solvent	50	SL D; NR
Bleach Solution Boric Acid	10	SL SO; SL B; SL D; R SL SO; SL P; R
Brake Fluid	10	SL SO, SL P, R SL SO; R
		,
Calcium Chloride	50	NE
Calcium Hydroxide	10	SL SO; M P; R
Citric Acid	10	NE





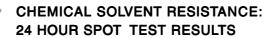
## CHEMICAL SOLVENT RESISTANCE: 24 HOUR SPOT TEST RESULTS

AGENT	% STRENGTH	RESISTANCE
Citric Acid Citric Acid	50 70	SL SO; R SL SO; SL P; R
Coca-cola Coffee Crayon		NE NE NE
Ethanol Ether	50	M SO; P; R NE
Ferrous Sulphate Formaldehyde	10	SL SO; SL P; R CON SO; SL P; SL D; R (1)
Glycerine		NE
Hydrochloric Acid Hydrochloric Acid Hydrochloric Acid Hypoid Grease	10 18.5 37	SL SO; R MO SO; SL P; R SEV SO; SEV B; NR NE
Isopropanol Ink		M SO; SEV B; NR SL D
Lactic Acid Lactic Acid	10 100	SL SO; SL P; R SEV SO; SEV B; NR
Merthiolate Motor Oil Mustard		M D NE SL D



## Uretec-R

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AGENT	% STRENGTH	RESISTANCE
Nail Polish Remover		NE
Nitric Acid	10	M SO; SL P; SEV D; R (1)
Nitric Acid	50	CON SO; M B; SEV D; R (1)
Peracetic Acid	3	M SO; SL P; M D; R (1)
Perchlorethylene		SL SO; R
Petrol		SL D
Phosphoric Acid	2	M SO; SL P; R
Pine Tar Oil		M D; NR
Red Lipstick		SL D
Red Nail Polish		NE
Ride Solution	0.25	SL SO; SL P; R
Shoe Polish		SEV D
Sodium Chloride	10	SL SO; R
Sulphuric Acid	2	M SO; SL P; R
Sulphuric Acid	10	M SO; R
Sulphuric Acid	33	SL SO; R
Sulphuric Acid	50	SL SO; SEV B; NR
Sulphune Acid	30	3230, 32V B, MX
Tea		NE
Tobasco Sauce		SL D; NR
Transmission Fluid		NE
Urine		NE
Vinyl Toluene		SL SO; R
Windscreen Washh Solvent		SL SO; SL P; R
Worcestershire Sauce		SL D; NR
		·
Xylene		CON SO; SL P; R



# PRODUCT DATA

	URETEC-RP:	
]	Curing Time	2 - 3 hours to tack free
	Theoretical Spread Rate per coat	10 m <sup>2</sup> per litre over concrete, timber, and composite board
	Recommended Thinners	Astec Brush'n'Roller Wash
	URETEC-R:	
	Curing Time	3 - 4 hours to hard dry, 12 - 24 hours ready for use 3 - 7 days full cure
	Recoat Time @ 25°C, 55% RH	3 - 4 hours
	Theoretical Spread Rate per coat	5m² per litre [metal] 5m² per litre [flat concrete]
	Recommended Thinners	Astec Brush'n'Roller Wash

Any technical advice furnished by Astec Paints Australia or any representative of Astec concerning use or application of any product is believed to be reliable. However, Astec makes no warranty, express or implied, of any use or application for which such advice is furnished.

The representations and recommendations regarding the products are based on tests which we believe to be reliable. Based on our findings no guarantee of their accuracy can be made due to variations in field conditions encountered. Thus, the products are sold with a limited warranty only, and on the condition that purchasers will make their own tests to determine the suitability of the product for their particular purposes. Under no circumstances will Astec Paints Australia be liable to anyone except for replacement of the product or refund of the purchase price.

Astec Paints Australia Pty. Ltd. 24 Pinn Street St. Marys South Australia 5042

Telephone +61 08 8277 6067 Facsimile +61 08 8277 6291

Your nearest Astec Paints distributor is:





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