

(TECHNICAL BULLETIN)

ASTEC WATERPROOFING PRODUCTS AND SYSTEMS

SINGLE PACK RAPID DRY POLYURETHANE SYSTEM

Uretec-R



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 (Uretec-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.

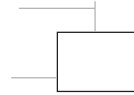
PROPERTIES

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.



PREPARATION

GENERAL

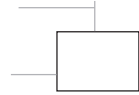
- Ensure that all surfaces are clean, dry, free of contaminants and structurally sound.
- Ensure that the surface is free of oils and silicones thus eliminating sources of adhesion failure.
- Blast clean bare metal surfaces to AS1627.4 Class 2 where permissible, otherwise clean with a power wire brush.

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.
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- 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.

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.

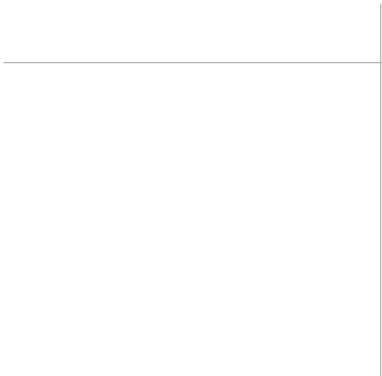


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ASTEC WATERPROOFING PRODUCTS AND SYSTEMS.

 **LIMITATIONS**

Experience has indicated that 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.





**CHEMICAL SOLVENT RESISTANCE:
24 HOUR SPOT TEST RESULTS**

CODES USED

DEGREE OF EFFECT

NE No effect
 SL Slight
 M Moderate
 CON Considerable
 SEV Severe

EFFECT

SO Softening
 P Pimpling
 B Blistering
 D Discolouration

RECOVERY

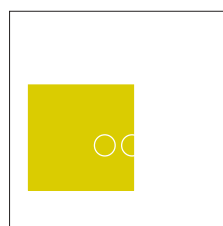
R Recovers
 NR No Recovery to usable film
 CD Completely Destroyed
 (1) Discolouration Remains

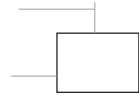
AGENT

% STRENGTH

RESISTANCE

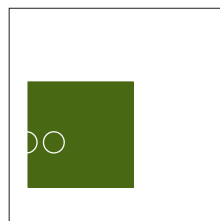
Acetic Acid	0.5	NE
Acetic Acid	5	M; SO; R
Acetic Acid	10	SL SO; SL P; R
Acetic Acid	50	SEV SO; B; NR
Acetic Acid - Glacial		CD
Acetone		CD
Ammonia Solution	10	M SO; SL P; R
Ammonia Solution	20	SL SO; SL P; R
Anti Freeze Solvent	50	SL D; NR
Bleach Solution		SL SO; SL B; SL D; R
Boric Acid	10	SL SO; SL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

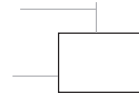




**CHEMICAL SOLVENT RESISTANCE:
24 HOUR SPOT TEST RESULTS**

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





**CHEMICAL SOLVENT RESISTANCE:
24 HOUR SPOT TEST RESULTS**

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)
Perchloroethylene		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
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



Uretec-R

PRODUCT DATA



URETEC-RP:

■	Curing Time	2 - 3 hours to tack free
■	Theoretical Spread Rate per coat	10 m ² 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	5m ² per litre [metal] 5m ² per litre [flat concrete]
■	Recommended Thinners	Astec Brush'n'Roller Wash

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