

## **TECHNICAL DATA SHEET**

PRODUCT	UT100 TWO-PACK ACRYLIC URETHANE TOPCOAT				
 I	maintain maximum appearance f ts principal application areas are	00 2-Pack topcoat is an unmodified acrylic polyurethane designed to tain maximum appearance for the maximum length of time. incipal application areas are for the decoration and protection of railway g stock, auto-refinish, buses, marine craft, signage, concrete and masonry.			
PROPERTIES	. Full colour rence or mo				
COLOUR	: Full colour range of ma	: Full colour range or matchings on request.			
GLOSS LEVEL	: Full gloss (other levels	: Full gloss (other levels available).			
WEATHERING	: Excellent.				
CHEMICAL RESISTANCE	: Very good.				
SOLVENT RESISTANCE	: Very good.				
ABRASION RESISTANCE	: Very good.				
TEMPERATURE RANGE	: From -30 °C up to 150	<b>:</b> From -30 °C up to 150 °C (dry).			
TECHNICAL DATA					
RECOMMENDED FILM B	UILD: 100 microns (wet)	40 microns (dry)			
VOLUME SOLIDS	: approximately 40 %	(depending on color)			
THEORETICAL COVERAG	<b>GE</b> : Approx. 10 metres <sup>2</sup> / lit	tre at 100 microns wet.			
COMPONENTS	: Two.				
MIXING RATIO	: 4 parts Part "A" : 1 par	: 4 parts Part "A" : 1 part "B" by volume			



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DRYING AT 25 °C	Touch dry: Recoat:	2 hrs 4 hrs	Handleable: Full cure:	6 hrs 7 days
CHEMICALLY ASSISTED DRYING AT 25 °C	Touch dry: Recoat:	1 hr 2 hrs	Handleable: Full cure:	3 hrs 7 Days
POT LIFE AT 25 °C	8hrs.			
APPLICATION METHODS	Air or airless spray, Brush or roller in smaller areas only & must use UT102 Flow Thinners. Chemically assisted drying requires air atomisation or shaping air.			
FLASHPOINT	23 °C			
SHELF LIFE	12 months (minimum) in original containers			
PACKAGING	Part A Part B	4 Lt. 20 L 1 Lt. 4 L		

#### SYSTEM RECOMMENDATIONS

SUBSTRATE	PREPARATION	COATING	FILM BUILD
SUDSINATE	FREFARATION		
		SEQUENCE	WET (DRY)
STEEL	Abrasive blast	1st coat :	
	Clean AS1627.4 class	BC300 2- pack Metal Etch Primer	40 - 50 (10 - 15) microns
	2.5 (min)	OR	
		1st coat:	
		EP210 2-pack Anti-corrosive Primer	150 (75) microns
		Finish coat:	
		UT100 Series Acrylic Topcoat	100 - 120 (40 - 48) microns
GALVANISED	Degrease and	1st coat:	
STEEL	mechanically	EP200 2-pack Epoxy Primer.	80 - 100 (30 - 40) microns
	abrade.		
	New Gal may require	Finish coats:	
	acid wash.	UT100 Series Acrylic Topcoat	100 - 120 (40 - 48) microns
ALUMINIUM	Degrease thoroughly.	1st coat :	
	Abrade if necessary.	BC300 2- pack Metal Etch Primer	40 (10) microns
		OR	
		1st coat:	
		EP200 2-pack Epoxy Primer	80 - 100 (30 - 40) microns
		Finish coat:	
		UT100 Series Acrylic Topcoat	100 - 120 (40 - 48) microns
G.R.P.	Remove mould	1st coat:	
	release or degrease.	EP200 2-pack Epoxy Primer	80 - 100 (30 - 40) microns
		Finish coat:	, , ,
		UT100 Series Acrylic Topcoat	100 - 120 (40 - 48) microns
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SUBSTRATE	SUBSTRATE PREPARATION COATING FILM BUILD				
SUDSINATE	I KEI AKATION				
		SEQUENCE	WET (DRY)		
TIMBER *	Sand and remove	1 <sup>st</sup> Coat :			
* UT100 Clear	dust.	UT300 or UT310 2-pack Timber Sealer	30 microns		
on externally		2 <sup>nd</sup> Coat :			
exposed timber -		UT220 or UT240 2-pack sanding undercoat	80 - 100 (30 - 40) microns		
NOT		Finish coat:			
recommended		UT100 Series Acrylic Topcoat	100 - 120 (40 - 48) microns		
		OR			
		1 <sup>st</sup> Coat :			
		UT220 or UT240 2-pack sanding undercoat	80 - 100 (30 - 40) microns		
		OR			
		1st Coat :			
		EP200 2-pack Epoxy Primer	80 - 100 (30 - 40) microns		
		Finish coat:			
		UT100 Series Acrylic Topcoat	100 - 120 (40 - 48) microns		
CONCRETE /	Acid wash new	1st Coat :			
MASONRY	surfaces.	EP200 2-pack Epoxy Primer	80 - 100 (30 - 40) microns		
	Remove dust, oil,				
	grease and loose				
	material from aged	Finish coat:			
L	surfaces.	UT100 Series Acrylic Topcoat	100 - 120 (40 - 48) microns		

#### **SURFACE PREPARATION**

STEEL	Remove any grease or oil using suitable solvent or water based degreaser. Acid or alkali presence should be neutralized with appropriate products Followed by thorough rinsing with water. Any other foreign matter eg. rust, mill-scale etc., should be abrasively blast cleaned to Australian Standard AS1627.4 class2.5 for ambient conditions or Class 3 for immersion conditions.
GALVANISED STEEL OR	Remove any grease or oil using suitable solvent or water based degreasers. (See AS16271.1).
ALUMINIUM	Mechanical abrasion and dust off should follow.
CONCRETE / MASONRY	Acid wash new surfaces using dilute hydrochloric acid. Wash with fresh water and allow to fully dry.
TIMBER / M.D.F. G.R.P.	Sand or de-nib and dust off prior to sealing. Remove any grease, oil or mould release using suitable solvent or water based degreaser. Allow to dry thoroughly before coating.



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APPLICATION					
MIXING	Stir each of the components till homogenous.				
	Mix all base and hardener components until fully blended.				
	Allow induction time of 10 - 15 minutes prior to commencing application.				
	For smaller quantities mix 4 parts of base to 1 part hardener by volume.				
	For improved resistance properties in water immersion conditions				
	(e.g. marine use), mix 3 parts of base to 1 part hardener by volume				
THINNING	Use recommended thinner only, up to a maximum of 20 % by volume				
	depending on method of application employed.				
<b>BRUSH OR ROLLER</b>	Use brush for small or difficult areas & must use UT102 Flow Thinners.				
	Short nap roller is recommended with two coats for best result and even finish.				
	Wash-up with UT100 U-Thane Thinner or BC Gunwash.				
SPRAYING	Conventional pressure pot : 1.5 mm Fluid orifice using 385 kpa (50 psi).				
	Pressure at pot : 65 kpa (10 psi)				
	Pressure at Gun : 385 kpa (50 psi)				
AIRLESS	Standard airless equipment using 28.1 pump ratio and fluid tip range				
	475 - 525 microns (0.019 - 0.021 inches)				
	and supply air at 520 - 650 kPa (80 - 100 psi).				
	Thin as necessary with UT100 U-Thane Thinner.				
EQUIPMENT CLEANUP					
	UT100 U-Thane Thinner or BC Gunwash.				
<b>PRECAUTIONS</b>					
SAFETY	Provide adequate ventilation during use.				
	Airflow should be adequate to ensure a comfortable working atmosphere.				
	When spray painting, users should comply with the provisions of the State Spray Painting Regulations.				
	Where this is not possible, operators must use an air supplied respirator				
	Complying with Australian Standards AS1715 and AS1716.				
	This product is flammable and all sources of ignition (flame, pilot lights,				
	furnaces, spark producing switch etc.) must be eliminated in, or near the				
	application area.				
	DO NOT SMOKE.				
	This product is poly-isocyanate catalysed and all the necessary precautions must				
	be observed when handling this type of material.				
	Avoid contact with skin and eyes.				
	Wear protective goggles and gloves when handling the material.				
	In the case of skin contact, remove contaminated clothing and wash skin				
	thoroughly with clean water.				
	Seek medical attention if eyes are affected by splashes or fumes.				



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#### GENERAL

Freshly mixed material must **NOT** be added to material which has been in use for some time. Rate of cure is dependent upon temperature. Do **NOT** apply this product at ambient temperatures below 15 °C or greater than 40 °C or at relative humidities less than 25 % or above 85 %. Ensure maximum recoat interval is not exceeded otherwise surface must be lightly abraded and then dusted to ensure maximum inter-coat adhesion. Shelf life is normally 12 months but depends on storage conditions.

#### **DANGEROUS GOODS**

Part A	Class 3.1	UN	1263	PAINT	HFP
Part B	Class 3.2	UN	1866	PAINT	HFP

This data sheet is based on information in BC Coatings possession at date of issue. BC Coatings supplies its products only on condition that the consumer is satisfied as to the performance of the product in meeting his particular requirements.