

Email: orders@bccoatings.com.au
Text Orders/Enquiries: 0487 800 090

TECHNICAL DATA SHEET

PRODUCT UT100 TWO-PACK ACRYLIC URETHANE TOPCOAT

DESCRIPTION UT100 2-Pack topcoat is an unmodified acrylic polyurethane designed to

maintain maximum appearance for the maximum length of time.

Its principal application areas are for the decoration and protection of railway rolling stock, auto-refinish, buses, marine craft, signage, concrete and masonry.

PROPERTIES

COLOUR : Full colour range or matchings on request.

GLOSS LEVEL : Full gloss (other levels available).

Due to the variable nature of substrates UT100 Matte may vary in gloss

from 2-10%

WEATHERING : Excellent.

CHEMICAL RESISTANCE: Very good.

SOLVENT RESISTANCE: Very good.

ABRASION RESISTANCE: Very good.

TEMPERATURE RANGE : From -30 °C up to 150 °C (dry).

TECHNICAL DATA

RECOMMENDED FILM BUILD: 100 microns (wet) 40 microns (dry)

VOLUME SOLIDS : approximately 40 % (depending on color)

THEORETICAL COVERAGE : Approx. 10 metres² / litre at 100 microns wet.

COMPONENTS: Two.

MIXING RATIO : 4 parts Part "A": 1 part "B" by volume



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DRYING AT 25 °C Touch dry: 2 hrs Handleable: 6 hrs

Recoat: 4 hrs Full cure: 7 days

CHEMICALLY ASSISTED Touch dry: 1 hr Handleable: 3 hrs **DRYING AT 25** °C Recoat: 2 hrs Full cure: 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 4 Lt. 20 Lt.

Part B 1 Lt. 4 Lt.

SYSTEM RECOMMENDATIONS

SUBSTRATE	UBSTRATE PREPARATION COATING FILM BUILD							
SUBSTRATE	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	10 (10) 1111010115					
		1st coat:						
		EP200 2-pack Epoxy Primer	80 - 100 (30 - 40) microns					
		Finish coat:						
		UT100 Series Acrylic Topcoat	100 - 120 (40 - 48) microns					
		O 1 100 Series Acrylic Topeoat	100 - 120 (40 - 40) IIICIOIIS					
G.R.P.	Remove mould	1st coat:						
0.11.1	release or degrease.	EP200 2-pack Epoxy Primer	80 - 100 (30 - 40) microns					
	release of degrease.	Finish coat:	50 - 100 (50 - 40) inicions					
			100 120 (40 48) mismans					
		UT100 Series Acrylic Topcoat	100 - 120 (40 - 48) microns					

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SYSTEM RECOMMENDATIONS

SUBSTRATE	PREPARATION	COATING	FILM BUILD	
		SEQUENCE	WET (DRY)	
TIMBER *	Sand and remove	1 st Coat :	, , ,	
* UT100 Clear	dust.	UT300 or UT310 2-pack Timber Sealer	30 microns	
on externally		2 nd 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 st 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 !	A * 1 1	1.0		
CONCRETE /	Acid wash new	1st Coat:	00 100 (20 40)	
MASONRY	surfaces.	EP200 2-pack Epoxy Primer	80 - 100 (30 - 40) microns	
	Remove dust, oil,			
	grease and loose			
	material from aged	Finish coat:		
	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 Remove any grease or oil using suitable solvent or water based degreasers.

STEEL OR (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. Sand or de-nib and dust off prior to sealing.

G.R.P. 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.

BRUSH OR ROLLER 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 All equipment should be thoroughly cleaned with

UT100 U-Thane Thinner or BC Gunwash.

PRECAUTIONS

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.

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