

TECHNICAL DATA SHEET

PRODUCT

UT900 TWO-PACK POLYURETHANE TOPCOAT

DESCRIPTION

A full gloss two-component polyurethane topcoat designed for internal application with fast packing time to give a hard, durable finish. Ideally suited to the decoration of timber, timber veneers, M.D.F, particle boards or cementitious boards after suitable sealing and priming.

PROPERTIES

For industrial use only in spray areas complying with relevant regulations.

COLOUR

Full colour range.

GLOSS LEVEL

Available in full gloss (100%), semi-gloss (60%), satin (30%) and matte (10%).

HARDENER SELECTION

MATTE & SATIN FINISHES

UT900 Hardener available for use in cool to moderate conditions (air temperatures 15 to 25 °C), on vertical surfaces or small areas such as edging etc.

UT903 Hardener available for use in moderate to hot conditions (air temperatures 20 to 30° C)

UT903 Hardener can give a slightly different gloss level to that when using UT900 Hardener. This slightly different gloss level may also give an apparent color variation.

The different hardeners can be blended by the user to give the required properties to suit individual application and/or weather conditions.

Variations in application conditions and substrates may also give an apparent gloss variation.

CHEMICAL RESISTANCE Good

SOLVENT RESISTANCE Good

ABRASION RESISTANCE Good

WATER RESISTANCE Very Good - for splash resistance
NOT suitable for areas subject to immersion or flooding.

HARDNESS Very good

LIGHTFASTNESS Negligible yellowing when used in internal applications.

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RECOMMENDED FILM BUILD 45 - 50 microns dry applied over three passes

FLASHPOINT 23°C

VOLUME SOLIDS 45%

THEORETICAL COVERAGE 9 metres² per litre (approx. at 100 microns wet)

COMPONENTS Two

Both components must be mixed together immediately prior to use.

MIXING RATIO 2 Part "A" : 1 Part "B" by volume.

POT LIFE AT 25 °C 6 hours

DRYING AT 25 °C

Dust free	20 minutes
Print free	1 hour
Handleable	2 hours

For optimum results it is recommended to allow minimum 16 hours drying prior to heavy transportation or packing of coating.

Curing times are adversely affected by excessive paint film thickness, improper surface preparation, improper drying conditions and incorrect thinner selection.

Various hardeners are available to suit differing gloss levels, applications and ambient weather conditions. The slower hardeners can affect overnight cure rates and therefore it is advisable to test for packing times when using these hardeners.

APPLICATION METHODS Conventional spray, airless spray or air assisted airless spray.

SHELF LIFE 12 months at 25°C in original sealed containers.

PACKAGING

Part A	1 Litre	4 litres	10 litres	20 litres
Part B	1 litre	2 litres	5 litres	

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<u>SUBSTRATE</u>	<u>PREPARATION</u>	<u>COATING SEQUENCE</u>	<u>FILM BUILD WET (DRY) in MICRONS</u>
TIMBER	Sand and remove dust.	1 st coat: UT320 2-Pack Timber Sealer	80
		or	
		UT220 White Undercoat	80 - 100 (25 - 35)
		or	
		UT240 White Timber Undercoat	80 - 100 (25 - 35)
		2 X Coats PE230 White Polyester Undercoat	300 Dry
		Finish coat: UT900 2-Pack Fast Dry Topcoat	100 - 110 (45 - 50)
		or	
		UT100 Series 2-Pack Acrylic Topcoat	110 - 120 (45 - 50)
M.D.F	Scuff back and dust off.	1 st coat: UT220 White Undercoat	80 - 100 (25 - 35)
		or	
		UT240 White Timber Undercoat	80 - 100 (25 - 35)
		or	
		PE230 White Polyester Undercoat	300 Dry
		Finish coats: UT900 2-Pack Topcoat.	100 - 110 (45 - 50)
		or	
		UT100 Series 2-Pack Acrylic Topcoat.	110 - 120 (45 - 50)
PARTICLE BOARD	Dust-off	1 st coat: UT220 White Undercoat	80 - 100 (25 - 35)
		or	
		UT240 White Timber Undercoat	80 - 100 (25 - 35)
		or	
		PE230 White Polyester Undercoat	300 Dry
		2 nd Coat: UT220 White Undercoat	80 - 100 (25 - 35)
		or	
		UT240 White Timber Undercoat	80 - 100 (25 - 35)
		Finish Coat: UT900 2-Pack Topcoat	100 - 110 (45 - 50)
or			
		UT100 Series 2-Pack Acrylic Topcoat	110 - 120 (45 - 50)

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<u>SUBSTRATE</u>	<u>PREPARATION</u>	<u>COATING SEQUENCE</u>	<u>FILM BUILD WET (DRY) in MICRONS</u>
TIMBER VENEERS (NATURAL) CLEAR FINISHES		Sand and remove dust.	
		1 st coat: UT320 Clear 2-Pack Timber Sealer	80
		or	
		UT300 Clear 2-Pack Timber Sealer	80
		Finish coat: UT900 Clear 2-Pack Fast Dry Topcoat	80 - 100 (35 - 45)
<p>For reconstituted veneers / New Age veneers etc., BC Coatings strongly recommends the use of our UT160 UV Max. 2K Sealer & Topcoats to minimize the loss of color experienced with these types of veneers.</p>			
CEMENTITIOUS BOARD		Remove Dust	
		1 st coat: EP200 Epoxy Primer	100 - 150 (40 - 60)
		or	
		UT220 White Undercoat	80 - 100 (25 - 35)
		Seal all edges and exposed areas	
		2 nd coat: EP200 Epoxy Primer	100 - 150 (40 - 60)
		or	
		UT220 White Undercoat	80 - 100 (25 - 35)
		3 rd Coat: EP100 Epoxy Topcoat	80 - 120 (40 - 45)
		or	
		UT900 2-Pack Topcoat	100 - 110 (45 - 50)
		or	
		UT100 Series 2-Pack Acrylic Topcoat.	110 - 120 (45 - 50)
	Finish Coat: EP100 Epoxy Topcoat	80 - 120 (40 - 48)	
	or		
	UT900 2-Pack Topcoat	100 - 110 (45 - 50)	
	or		
	UT100 Series 2-Pack Acrylic Topcoat.	110 - 120 (45 - 50)	



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SURFACE PREPARATION

- TIMBER / M.D.F.** Should not be applied directly over untreated TIMBER / M.D.F. Appropriate sanding sealers or undercoats are available such as UT300 or UT320 Sealer and UT220 Undercoat/UT240 Undercoat.
- PLASTICS** Due to vast range of plastics types available, decoration of these substrates should only be attempted after consultation with a BC Coatings technician.
- CEMENTITIOUS BOARDS** Due to vast range of board types available, decoration of these substrates should only be attempted after consultation with a BC Coatings technician.

APPLICATION

- MIXING** Mix all of base to all of hardener or in the ratio of TWO (2) parts of base to ONE (1) part Hardener by volume for small requirements.
- THINNING** Consult your Sales Representative

THINNER SELECTION

UT100 U-Thane Thinner and UT900 Fast Thinner are available for use in cool to moderate conditions (air temperatures 15 to 25°C), on vertical surfaces or small areas such as edging & etc..

UT101 Medium Thinner / UT935 Medium Thinner / UT900 Slow Thinner are available for use in hot to severe conditions (air temperatures 25 to 35°C), or on very large flat areas.

The different thinners can be blended by the user to give the required properties to suit individual application and/or weather conditions.

SPRAYING	Conventional siphon pot	: 385kpa	(50 psi)
	Conventional pressure pot	: 300 kPa - 450 kPa	(45 - 65 psi)
	Pressure at pot	: 65 kPa	(10 psi)
	Pressure at Gun	: 385 kPa	(50 psi)

Apply three light coats to give approximately 100 micron wet film build.

UT900 is **NOT** a recoatable system therefore coatings should be applied in one session.

N.B.

If recoating is required, allow coating to fully dry and thoroughly sand back to ensure adequate key into substrate.

EQUIPMENT CLEANUP

All equipment should be thoroughly cleaned with B.C. Coatings Gunwash.



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PRECAUTIONS

This product is highly flammable and all sources of ignition (flame, pilot lights, furnaces, spark producing switches & etc.) must be eliminated in, or around the application area.

DO NOT SMOKE when using this product.

This product is poly-isocyanate catalyzed and the necessary precautions must be observed when handling this material.

REFER TO SDS BEFORE USING THIS PRODUCT

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 temperatures below 10°C or relative humidity's above 85%.

Ensure maximum re-coat 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 in original, sealed containers, but will depend on storage conditions.

DANGEROUS GOODS

Part A	Class 3	UN1263	Paint Related Material
Part B	Class 3	UN1866	Resin Solution, Flammable

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 their particular requirements.