



TECHNICAL DATA SHEET

PRODUCT

UT900 TWO-PACK POLYURETHANE TOPCOAT

DESCRIPTION

A full gloss two-component Polyurethane topcoat designed for internal applications with fast packing time and giving a hard, durable finish. Ideally suited to the decoration of timber, M.D.F or particle board after sealing and priming.

PROPERTIES

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

COLOUR

Full colour range.

GLOSS LEVEL

Full gloss, also available in semigloss, satin and matte.

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

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	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</u> <u>WET (DRY)</u> <u>MICRONS</u>		
TIMBER	Sand and remove dust.	1 st coat: UT300 2-Pack Timber Sealer	80		
		or	80 - 100 (26 - 34)		
		UT220 White Undercoat			
		or			
		UT240 White Timber Undercoat	80 - 100 (26 - 34)		
		or			
		2 X Coats PE230 White Polyester Undercoat	300 Dry		
		Finish coat: UT900 2-Pack Fast Dry Topcoat	80 - 100 (36 - 45)		
		or			
		UT100 Series 2-Pack Acrylic Topcoat	100 - 120 (40 - 50)		
M.D.F	Scuff back and dust off.	1 st coat: UT220 White Undercoat	80 - 100 (26 - 34)		
		or			
		UT240 White Timber Undercoat	80 - 100 (26 - 34)		
		or			
		PE230 White Polyester Undercoat	300 Dry		
				Finish coats: UT900 2-Pack Topcoat.	80 - 100 (36 - 45)
		or			
		UT100 Series 2-Pack Acrylic Topcoat.	100 - 120 (40 - 50)		
PARTICLE BOARD	Dust-off	1 st coat: UT220 White Undercoat	80 - 100 (26 - 34)		
		or			
		UT240 White Timber Undercoat	80 - 100 (26 - 34)		
		or			
		PE230 White Polyester Undercoat	300 Dry		
				2 nd Coat: UT220 White Undercoat	80 - 100 (26 - 34)
		or			
		UT240 White Timber Undercoat	80 - 100 (26 - 34)		
				Finish Coat: UT900 2-Pack Topcoat	80 - 100 (36 - 45)
				or	
		UT100 Series 2-Pack Acrylic Topcoat	100 - 120 (40 - 50)		

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
 UT220 Undercoat/UT240 Undercoat and UT300 or UT310 Sealer.

PLASTICS

Due to vast range of plastics types available, decoration of these substrates
 should only be attempted after consultation with B.C Coatings technicians.

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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 Uthane 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/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

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 switches & etc.) must be eliminated in, or near the application area.

DO NOT SMOKE when using this product.

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

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 humidities 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 but depends on storage conditions.

DANGEROUS GOODS

Part A	Class 3.1	UN1263	PAINT HFP
Part B	Class 3.2	UN1866	RESIN SOLUTION

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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