

## **TECHNICAL DATA SHEET**

### **PRODUCT**

### **UT935 TWO-PACK POLYURETHANE TOPCOAT**

### **DESCRIPTION**

A premium, 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 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.

### **GLOSS FINISHES**

UT935 Fast 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.

UT935 Medium Hardener available for use in moderate to hot conditions (air temperatures 20 to 30°C).

UT935 Slow Hardener available for use in hot to severe conditions (air temperatures 30 to 35+°C), or on very large flat areas.

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

**CHEMICAL RESISTANCE** Good

**SOLVENT RESISTANCE** Good

**ABRASION RESISTANCE** Good

**HARDNESS** Very good

**LIGHTFASTNESS** Negligible yellowing when used in internal applications



Manufacturers of UTHANE Polyurethane Coatings  
2 Hume Road, Smithfield, N.S.W., 2164  
Phone +612 9729-2000 1300 BCC OAT (222 628)  
Email: [orders@bccoatings.com.au](mailto:orders@bccoatings.com.au)  
Text Orders/Enquiries: 0487 800 090

## TECHNICAL DATA SHEET

### UT935 TWO-PACK POLYURETHANE TOPCOAT

**RECOMMENDED FILM BUILD** 45 - 50 microns dry applied over three passes  
**FLASHPOINT** 23 °C  
**VOLUME SOLIDS** 45 %  
**THEORETICAL COVERAGE** 9 metres<sup>2</sup> 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	2 Litres	4 litres	20 litres
Part B	1 litre	2 litres	5 litres	



Manufacturers of UTHANE Polyurethane Coatings  
 2 Hume Road, Smithfield, N.S.W., 2164  
 Phone +612 9729-2000 1300 BCC OAT (222 628)  
 Email: [orders@bccoatings.com.au](mailto:orders@bccoatings.com.au)  
 Text Orders/Enquiries: 0487 800 090

**TECHNICAL DATA SHEET**

**UT935 TWO-PACK POLYURETHANE TOPCOAT**

<u>SUBSTRATE</u>	<u>PREPARATION</u>	<u>COATING SEQUENCE</u>	<u>FILM BUILD</u> <u>WET (DRY)</u> <u>MICRONS</u>
<b>TIMBER</b>	Sand and remove dust.	1 <sup>st</sup> 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: UT935 2-Pack Fast Dry Topcoat	80-100 (36-45)
		or	
		UT100 Series 2-Pack Acrylic Topcoat	100-120 (40-50)
<b>M.D.F</b>	Scuff back and dust off.	1 <sup>st</sup> 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: UT935 2-Pack Topcoat.	80-100 (36-45)
		or	
		UT100 Series 2-Pack Acrylic Topcoat.	100-120 (40-50)
<b>PARTICLE BOARD</b>	Dust-off	1 <sup>st</sup> 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 <sup>nd</sup> Coat: UT220 White Undercoat	80-100 (26-34)
		or	
		UT240 White Timber Undercoat	80-100 (26-34)
		Finish Coat: UT935 2-Pack Topcoat	80-100 (36-45)
		or	
		UT100 Series 2-Pack Acrylic Topcoat	100-120 (40-50)

## TECHNICAL DATA SHEET

### UT935 TWO-PACK POLYURETHANE TOPCOAT

#### 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.

#### 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 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 30 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	: 385 kPa	(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.  
UT935 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.

## TECHNICAL DATA SHEET

### UT935 TWO-PACK POLYURETHANE TOPCOAT

#### EQUIPMENT CLEANUP

All equipment should be thoroughly cleaned with BC Coatings 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 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.

<b>DANGEROUS GOODS:</b>	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.