



## TECHNICAL DATA SHEET

### UT105 TWO-PACK ACRYLIC STRUCTURED METALLIC COLOURS

**TECHNICAL DATA (continued)**

**CHEMICALLY ASSISTED DRYING AT 25°C**

Touch dry	: 1 hour	Handleable	: 3 hours
Recoat	: 2 hours	Full cure	: 3 days

**POT LIFE AT 25 °C**

: 8 hours

**APPLICATION METHODS**

: Air or airless spray.

Chemically assisted drying requires air atomization or shaping air.

**FLASHPOINT**

: 23 °C

**SHELF LIFE**

: 12 months (minimum) in original sealed containers

**PACKAGING**

: Part A 1 litre, 4 litre, 20 litre open head metal containers  
 Part B 1 litre, 5 litre screwtop metal containers

### SYSTEM RECOMMENDATIONS

<u>SUBSTRATE</u>	<u>PREPARATION</u>	<u>COATING SEQUENCE</u>	<u>FILM BUILD WET (DRY)</u>
<b>STEEL</b>	Abrasive blast Clean AS1627.4 class2.5 (min)	1 <sup>st</sup> coat : BC300 2-pack Metal Etch Primer.  or 1 <sup>st</sup> coat : EP210 2-pack Anticorrosive Primer.  Finish coat: UT105 Series 2-Pack Acrylic Topcoat.*	40 (10) microns   150 (75) microns  100 - 120 (40 - 48) microns
<b>GALVANISED STEEL</b>	Degrease and mechanically abrade. New gal may require acid wash	1 <sup>st</sup> coat : EP200 2-pack Epoxy Primer.  Finish coat: UT105 Series 2-Pack Acrylic Topcoat.*	80 - 100 (30 - 40) microns  100 - 120 (40 - 48) microns
<b>ALUMINIUM</b>	Degrease thoroughly. Abrade if necessary.	1 <sup>st</sup> coat : BC300 2-pack Metal Etch Primer.  or 1 <sup>st</sup> coat : EP200 2-pack Epoxy Primer.  Finish coat: UT105 Series 2-Pack Acrylic Topcoat.*	40 (10) microns  80 - 100 (30 - 40) microns  100 - 120 (40 - 48) microns.
<b>G.R.P.</b>	Remove mould release or degrease.	1 <sup>st</sup> coat : EP200 2-pack Epoxy Primer.  Finish coat: UT105 Series 2-Pack Acrylic Topcoat.*	80 - 100 (30 - 40) microns  100 - 120 (40 - 48) microns.

**\* Note that a final clear coat is optional, but strongly recommended to enhance the appearance and to offer maximum protection.**

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<u>SUBSTRATE</u>	<u>PREPARATION</u>	<u>COATING SEQUENCE</u>	<u>FILM BUILD</u> WET ( DRY )
<b>TIMBER *</b> * UT100/UT105 on externally exposed timber - not recommended	Sand and remove dust.	1 <sup>st</sup> coat : UT300 or UT320 2-pack Timber Sealer. 2 <sup>nd</sup> coat : UT240 2-pack Sanding Undercoat. or 1 <sup>st</sup> coat : UT240 2-pack Sanding Undercoat. or 1 <sup>st</sup> coat : EP200 2-pack Epoxy Primer. Finish coat: UT105 Series 2-Pack Acrylic Topcoat.*	50 - 60 (30 40) microns 80 - 100 (30 - 40) microns 100 - 120 (40 - 48) microns 80 - 100 (30 - 40) microns
<b>CFC PANELS / MASONRY</b>	Remove dust, oil, grease and loose material from aged surfaces.	1 <sup>st</sup> coat : EP200 2-pack Epoxy Primer. or UT100 Series Acrylic Topcoat. Finish coat: UT105 Series 2-Pack Acrylic Topcoat.*	80 - 100 (30 - 40) microns 100 - 120 (40 - 48) microns 100 - 120 (40 - 48) microns

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#### **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 clean water.  
Any other foreign matter, eg. rust, mill-scale & etc., should be abrasively blast cleaned to Australian standard AS1627.4 Class 2.5 for ambient conditions or Class 3 for immersion conditions.

##### **GALVANISED STEEL OR ALUMINIUM**

- : Remove any grease or oil using suitable solvent or water based degreasers. (See AS16271.1).  
Mechanical abrasion and dust off should follow.

##### **CFC/MASONRY**

- : Acid wash new masonry surfaces using dilute hydrochloric acid.  
Wash with fresh water and allow to fully dry.  
CFC should be dry sanded and all dust or loose surface material blown away with dry clean compressed air.

##### **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 to stand for 10 - 15 minutes prior to commencing application.  
For smaller quantities mix 4 parts of base to 1 part hardener by volume.

##### **THINNING**

- : Use the recommended thinner(s) only, up to a maximum of 10 - 40 % by volume, depending on the method of application employed.

##### **SPRAYING**

- : Conventional suction or gravity feed spray gun  
1.2 mm - 1.5 mm Fluid orifice using 385 kPa (50 psi).
  
- : 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 p.s.i).  
Thin as necessary with UT100 U-Thane Thinner.

**EQUIPMENT CLEANUP** : All equipment should be thoroughly cleaned with UT100 U-Thane Thinner

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#### **USE OF OVERLAY CLEAR FINISHES.**

The use of a final coat of clear is optional, but is strongly recommended for the following reasons :-

- (1) The metallic particles, because of their shape and size, may microscopically protrude above the surface of the paint film
- (2) This may make feel the surface feel slightly rough &/or scratchy
- (3) The protruding metallic particles may be abraded in time and change the appearance of the finish
- (4) The rough surface acts a magnet for dirt, oil & grease pickup, fly spotting, fingerprints & etc., so a coat of clear will be an aid in keeping the surface cleaner for longer
- (5) Even though BC Coatings has taken all care to select and use the most corrosion resistant grades of metallic pigments available, in time the bare metallic finish may be subject to attack from acids, alkalis and harsh cleaning agents. The final clear coat offers protection from these chemicals
- (6) The use of a clear overlay enhances the appearance of the article
- (7) The gloss level of the UT105 Structured Metallic colors is normally a Semigloss.  
The use of clear finishes in the available range of glosses (Matte, Satin, Semigloss and Gloss) offers the applicator a way of providing a range of finished gloss levels while minimizing inventory.



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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 (flames, pilot lights, furnaces, spark producing switches, 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.

##### **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 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 in original sealed containers, but depends on storage conditions.

#### **DANGEROUS GOODS**

Part A Class 3	UN	1263	PAINT	LFP
Part B Class 3	UN	1866	PAINT	LFP

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.