

TECHNICAL DATA SHEET

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Ref tec003

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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).
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: 40%

THEORETICAL

COVERAGE: Approx. 10 sq metres per litre at 100 microns wet.

COMPONENTS: Two.

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

UT100 TWO-PACK ACRYLIC URETHANE TOPCOAT

DRYING AT 25C: Touch dry: 2 hrs Handleable: 6 hrs
Recoat: 4 hrs Full cure: 5 days

CHEMICALLY ASSISTED DRYING

AT 25C: Touch dry: 1 hr Handleable: 3 hrs
Recoat: 2 hrs Full cure: 3 Days

POT LIFE AT 25C: 8hrs.

APPLICATION

METHODS: Brush, roller, air or airless spray. Chemically assisted drying requires air atomisation or shaping air.

FLASHPOINT: 23 °C

SHELF LIFE: 12 months (min)

PACKAGING: Part A 4 ltr, 20 ltr.
Part B 1 ltr, 4 ltr.

SYSTEM RECOMMENDATIONS

<u>SUBSTRATE</u>	<u>PREPARATION</u>	<u>COATING SEQUENCE</u>	<u>FILM BUILD</u> <u>WET (DRY)</u>
STEEL	Abrasive blast Clean AS1627.4 class2.5 (min)	1st coat: BC300 2- pack metal etch primer. OR 1st coat:EP210 2-pack anticorrosive primer. Finish coat: UT100 series acrylic topcoat.	40-50 (10-15) microns 150 (75) microns 100-120 (40-48) microns
GALVANISED STEEL	Degrease and mechanically abrade . New Gal may require acid wash	1st coat:EP200 2-pack epoxy primer. Finish coats: UT100 series acrylic topcoat.	80-100 (30-40) microns 100-120(40-48) microns
ALUMINIUM	Degrease thoroughly. Abrade if necessary.	1st Coat:BC300 2-pack metal etch primer. OR 1st Coat:EP200 2-pack epoxy primer. Finish Coat: UT100 Series acrylic Topcoat.	40 (10) microns 80-100 (30-40) microns 100-120(40-48) microns.
G.R.P.	Remove mould release or degrease.	1st coat : EP200 2-pack Epoxy primer. Finish coat: UT100 series acrylic topcoat.	80-100(30-40) microns 100-120(40-48) microns.

<u>SUBSTRATE</u>	<u>PREPARATION</u>	<u>COATING SEQUENCE</u>	<u>FILM BUILD</u>
TIMBER * * Clear UT100 on externally exposed timber - not recommended	Sand and remove dust.	1st Coat: UT300 or UT310 2-pack timber sealer. 2nd Coat: UT200 or UT205 2-pack sanding undercoat. OR 1st Coat : UT200 or UT205 2-pack sanding undercoat. OR 1st Coat: EP200 2-pack Epoxy primer Finish Coat: UT100 series Acrylic topcoat.	WET (DRY) 30 microns 80-100 (30-40) microns 100-120 (40-48) microns 80-100 (30-40) microns
CONCRETE/ MASONRY	Acid wash new surfaces. Remove dust, oil, grease and loose material from aged surfaces.	1st Coat: EP200 2-pack epoxy primer. or UT100 series acrylic topcoat. Finish Coat: UT100 series acrylic topcoat.	80-100 (30-40) microns 100-120 (40-48) microns 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 neutralised 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 AS1627.1.1). 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.

UT100 TWO-PACK ACRYLIC URETHANE TOPCOAT

APPLICATION:

- MIXING:** Stir each of the components till homogenous.
Mix all base and hardener components until fully blended.
Allow induction time of 10-15 mins prior to commencing application.
For smaller quantities mix 4 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.
Short nap roller is recommended with two coats for best result and even finish.
Wash -up with UT100 thinners or B.C. 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: 385kpa(50 psi)
- AIRLESS:** Standard airless equipment using 28:1 pump ratio and fluid tip range 475-525 microns (.019-.021 inches) and supply air at 520-650 kpa (80-100p.s.i).
Thin as necessary with UT100 thinner.
- EQUIPMENT CLEANUP:** All equipment should be thoroughly cleaned with UT100 thinner or B.C. 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.

UT100 TWO-PACK ACRYLIC URETHANE TOPCOAT

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.

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 but depends on storage conditions.

DANGEROUS GOODS: Part A Class 3.1 UN1263 PAINT HFP
Part B Class 3.2 UN1866 PAINT FP

This data sheet is based on information in B.C. Coatings possession at date of issue.
B.C. Coatings supplies its products only on condition that the consumer is satisfied as to the performance of the product in meeting his particular requirements.