



**THE TEST OF TIME**

## TECHNICAL DATA SHEET

**PRODUCT:**

**UT160 UV-MAX MATTE CLEAR 2-PACK  
POLYURETHANE TOPCOAT**

**DESCRIPTION:**

UT160 UV-MAX 2-Pack matte Clear Topcoat is an unmodified acrylic polyurethane designed to maintain maximum appearance for the maximum length of time. The product has been designed to act as a self-sealing finish to provide the maximum Ultra-Violet protection and to minimise yellowing to cabinets etc. exposed to intermittent sunlight. Its principal area of application is in the decoration and protection of man made veneers such as “New Age” veneers and is used in the cabinet and wall panel industries.

**NOTE: UT160 UV Matte Clear is not recommended to be used on deep grain dark veneers. Please consult a BC Sales Representative for alternative systems. Please be aware of some imported veneers that may not have been tested with UV Max. Please contact your BC Sales Representative to have testing done prior to application on these untested veneers.**

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**PROPERTIES:**

<b>GLOSS LEVEL</b>	: Matte / Gloss Clear
<b>COLOUR</b>	: Slightly yellow in can, dries clear
<b>WEATHERING</b>	: Excellent
<b>CHEMICAL RESISTANCE</b>	: Very good
<b>SOLVENT RESISTANCE</b>	: Very good.
<b>ABRASION RESISTANCE</b>	: Very good.
<b>TEMPERATURE RANGE</b>	: From -30 °C up to 150 °C (dry).

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**TECHNICAL DATA:**

<b>RECOMMENDED FILM BUILD</b>	: 100 microns (wet)	40 microns (dry)
<b>VOLUME SOLIDS</b>	: 40 %	
<b>THEORETICAL COVERAGE</b>	: $\approx 10 \text{ metres}^2$ per litre at 100 microns wet. This will vary depending on the porosity of the substrate	
<b>COMPONENTS</b>	: Two.	

**MIXING RATIO** : 4 parts Part “A” : 1 part Part “B” by volume

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

**CHEMICALLY ASSISTED DRYING**

**@ 25°C** : Touch dry: 1 hr Handleable: 3 hrs  
Recoat: 2 hrs Full cure: 3 Days

**POT LIFE @ 25°C** : 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 lt, 20 lt.  
Part B 1 lt, 5 lt.

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**SURFACE PREPARATION:**

- Lightly sand board to remove scratches.
- Lightly sand edge strip to reduce edge veneer finger glue line.

**MIXING:** Stir each of the components till homogenous.  
Mix all base and hardener components until fully blended.  
Allow induction time of 10 - 15 minutes prior to commencing application.

**THINNING:** Use UT101 Medium Thinner, Thin 30% by volume.

**EQUIPMENT CLEANUP:** All equipment should be thoroughly cleaned with UT100 Thinner.

## **APPLICATION:**

- Gun pressure for all coats to be set at 310 kPa (45 psi) on regulator with the gun control valve fully open.
- Apply 1<sup>st</sup> seal coat of UT160 UV-Max Sealer or Gloss (Thinned with 30% UT101 Medium Thinner) **This may change due to variation in temperatures and conditions**
- Whilst still wet, apply 2<sup>nd</sup> seal coat of UT160 UV-Max Sealer or Gloss (Thinned with 30% UT101 Medium Thinner)
- Application rate for seal coats is 100mls. Per square metre of board.
- Allow 24 hours drying time.
- Lightly sand board.
- Clean board with solvent to remove sanding dust prior to application of top coat.
- Apply 1<sup>st</sup> top coat of UT160 UV-Max Matte Clear (Thinned with 30% UT101 Medium Thinner)
- Whilst still wet, apply 2<sup>nd</sup> top coat of UT160 UV-Max Matte Clear (Thinned with 30% UT101 Medium Thinner)
- Application rate for top coats is 100mls. Per square metre of board.
- Allow 24 hours drying time prior to transport.

## **MATERIALS:**

Sealer: UT160 UV-Max Clear Sealer or Gloss

Topcoat: UT160 UV-Max Matte Clear 2-Pack Urethane Topcoat.  
Manufactured by B.C. Coatings.

Thinner: UT101 Medium Thinner.  
Manufactured by B.C. Coatings.

**The above process is a guide only, FOR OPEN GRAIN FINISH ONLY  
The process may vary depending on Veneer and ambient conditions.  
If there is any doubt as to the procedure, please call B.C. Coatings for more information**

**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 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.

**Please note in some extreme cases where dark & deep veneer is used you may need to wipe down panels that are sanded and ready to top coat with a Wax & Grease remover to ensure no sanding dust is left in the deep grain sections.**

**DANGEROUS GOODS**

: Part A - Class 3.1 UN1263  
Part B - Class 3.2 UN1866

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.