**Manufacturers of UTHANE Polyurethane Coatings**
**2 Hume Road, Smithfield, N.S.W., 2164**
**Phone (02) 9729-2000 Fax (02) 9729-2279**



# TECHNICAL DATA SHEET

**PRODUCT** **BC700 BAKING ACRYLIC**

**DESCRIPTION** BC700 is a melamine cross-linked acrylic thermosetting system designed to give good mar resistance and excellent adhesion to metal substrates.

**APPLICATION** Suitable for a variety of interior / Exterior applications including appliances, automotive parts, architectural building components
e.g. aluminium windows frames, light fittings, fences and fittings.

## PROPERTIES

| | |
|---|---|
| **COLOUR** | White (colours matched to specification) |
| **GLOSS LEVEL** | Full range available |
| **WEATHERING** | Excellent exterior exposure.<br>No change at 1000 hrs QUV |
| **CHEMICAL RESISTANCE** | Excellent to weak organic acids and common alkalis. |
| **SOLVENT RESISTANCE** | Excellent - unaffected by most common organic solvents. |
| **ABRASION RESISTANCE** | Very good - excellent. |
| **TEMPERATURE RANGE** | Up to 180°C. |
| **PENCIL HARDNESS** | 2H - 4H |

## TECHNICAL DATA

| | | |
|---|---|---|
| **RECOMMENDED FILM BUILD** | 80 - 100 microns (wet) | 30-40 microns (dry) per coat. |
| **VOLUME SOLIDS** | 37% | |
| **THEORETICAL COVERAGE** | 12m² @ 30 microns (dry) | |
| **COMPONENTS** | ONE | |

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**BAKING SCHEDULE**

(a) Pre-Treated Aluminium : 140 -160°C for 15 mins depending on properties required.

(b) Pre-Painted COLORBOND: 180 °C for 10 mins (Pre-sand for acceptable inter-coat adhesion).

**APPLICATION METHODS:**

Conventional air or airless equipment.
Electrostatic and flow coating possible after consultation.

**FLASHPOINT** 20 °C.

**SHELF LIFE** 12 months in original containers

**PACKAGING** 4 lt. 20 lt.

**SYSTEM RECOMMENDATIONS**

| SUBSTRATE | PREPARATION | COATING SEQUENCE | FILM BUILD WET (DRY) |
|---|---|---|---|
| STEEL | Abrasive blast AS1627.4 class3 | 1st coat : BC300 2-pack metal etch primer | 40 - 50 (10 - 15) microns |
| | | OR | |
| | | 1st coat : EP200 or EP210 2-pack epoxy primer | 100 -150 (40 - 60) microns |
| | | Finish coat : BC700 Acrylic Topcoat | 80 - 100 (30 - 40) microns |
| | | | |
| ALUMINIUM | Degrease and pre-treat if necessary | Conversion coat OR 1st coat : BC300 2-pack metal etch primer | 40 - 50 (10 - 15) microns |
| | | Finish coat : BC700 Acrylic Topcoat | 80 - 100 (30 - 40) microns |
| | | | |
| GALVANISED STEEL | Degrease and pre-treat if necessary | 1st coat : BC300 2-pack metal etch primer | 40 - 50 (10 - 15) microns |
| | New Gal to be abraded. | Finish coat : BC700 Acrylic Topcoat | 80 - 100 (30 - 40) microns |

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## SURFACE PREPARATION

**STEEL**

Refer to more specific instructions.
Abrasive blast under AS 1627.4 to appropriate class recommended.

**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 for galvanised steel.
Aluminium should be etched or conversion coated .

## APPLICATION

**MIXING** Stir each container till homogenous.

**THINNING** Use recommended thinner only, up to a maximum of 10% by volume depending on method of application employed.

**SPRAYING**

| | | |
|---|---|---|
| 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 in range 475-525 microns (0.019-.021 inches) and supply air at 520-650 kpa (80-100p.s.i).
Thin as necessary with BC700 thinner.

**EQUIPMENT CLEANUP**

All equipment should be thoroughly cleaned with BC700 thinner.

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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.
This product is melamine 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 should 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 intercoat adhesion.
Shelf life is normally 12 months but depends on storage conditions.

**DANGEROUS GOODS**

| | | | |
|---|---|---|---|
| Class 3.1 | UN1263 | PAINT | HFP |