



## **TECHNICAL DATA SHEET**

**PRODUCT:** BC305 1K ETCH COATING

**DESCRIPTION:** BC305 1K Etch Coating is a high performance polyvinyl butyral and epoxy based, self-etch coating formulated to provide adhesion and anti-corrosive properties on ferrous metals, zinc coated steels (including galvanized iron) and non-ferrous metals such as aluminium.  
It has a smooth, matte surface with good covering power and functions by adhering to the base surface and providing good adhesion for subsequent finishing coats such as 2-pack polyurethanes, enamels and lacquers.

**COLOURS:** Available in White, Dark Gray, Light Gray and Black.

**FEATURES:** Use as a self-etching topcoat for interior use.  
Fast through dry.  
Can be recoated at anytime after the film has dried.  
Can be left uncoated for up to 3 months for exterior use without film degradation.  
Corrosion resistant.  
Zinc chromate free.  
Spray application.

**AREAS OF USE:** For general industrial use on metal fabrications, implements, structural steel for buildings, purlins, gates, cranes, trusses, agricultural parts.  
For exterior use should be over-coated with appropriate finish coat as soon as practically possible.  
For interior use apply a second coat of BC305 1K Etch Coating as the finishing coat.

**APPLICATION GUIDE:** Stir thoroughly to uniform consistency before using.  
BC305 1K Etch Coating is supplied ready for use straight from the can, but can be reduced up to 15% by volume with BC300 Etch Thinner for use with conventional spray systems.  
Apply 2 – 3 light passes.  
Allow adequate flash off time between passes and/or coats and do NOT attempt to speed up the drying process by blowing compressed air onto the job.  
Failure to follow these instructions can cause ridging, splitting and/or cracking of the surface.  
Allow to dry for 30 - 60 minutes before recoating with enamels and allow to dry approximately 2 hours before recoating with lacquers or urethane finishes.



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### **APPLICATION GUIDE: (continued)**

Do **NOT** apply to lead.  
Not suitable for prolonged exterior exposure as a one coat finish.

BC305 1K Etch Coating contains flammable solvents.

Keep away from heat and open flame.

When applying in a confined space use an air line respirator.

Should not be allowed to remain on the skin and normal hygiene standards should be observed when using this product.

### **SURFACE PREPARATION:**

Repair any surface defects prior to painting.

**All surfaces to be painted must be sound, suitably cleaned, degreased and dried.**

<b><u>SURFACE</u></b>	<b><u>PREPARATION</u></b>	<b><u>SYSTEM</u></b>	<b><u>DRY FILM THICKNESS</u></b>
Structural steel	Abrasive blast clean to AS1627.4 Class 2	First Coat : BC305 1-K Etch Coating Second Coat : UT100 U-Thane or BC100 Fast Dry Enamel	15 microns 50 - 100 microns 40 microns
Mild steel, galvanized / zinc coated steel, aluminium	Remove any rust, corrosion products, grease, oil, dirt, moisture. Degrease thoroughly. Let dry completely	First Coat : BC305 1-K Etch Coating Second Coat : UT100 U-Thane or BC100 Fast Dry Enamel	15 microns 50 - 100 microns 40 microns

### **AIR DRY SCHEDULE:**

Dust Free Time	5 minutes
Touch Dry Time	5 - 10 minutes
Print Free Time	30 minutes
Hard Dry Time	4 hours
Force Dry Time	10 minutes at 90 - 120 °C
Dry To Recoat Time	
ENAMELS	30 - 60 minutes
LACQUERS / URETHANES	2 hours

**NOTE: *Drying times are dependent on film build and ambient weather conditions.***



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### **TYPICAL PROPERTIES:**

<b>Gloss</b>	: Satin
<b>Shelf Life</b>	: 6 - 12 months in original sealed containers
<b>Flash Point</b>	: < 10 °C, Classification 3.1
<b>Durability</b>	: Exterior - very good with suitable topcoats. Interior - very good without topcoats.

### **RESISTANCE PROPERTIES**

<b>Abrasion</b>	: Fair
<b>Heat</b>	: Up to 120°C dry heat
<b>Solvent</b>	: Good for hydrocarbons. Not recommended for exposure to alcohols, esters or ketones
<b>Water</b>	: Good
<b>Chemical</b>	: Fair
<b>Immersion</b>	: Not recommended.

The information contained in this bulletin is given in good faith based on our laboratory and field experience.

There are no warranties implied or expressed.

It is recommended that the user determine the suitability of the product for the particular application under the user's actual conditions and application methods.