

## TECHNICAL DATA SHEET

<b>PRODUCT</b>	<b>EP100 SERIES EPOXY TOPCOAT</b>
<b>DESCRIPTION</b>	EP100 two-pack topcoat is an Epoxy coating for use where superior chemical resistances are required. e.g. maintenance painting in chemical environments, laboratory bench tops.
<b><u>PROPERTIES</u></b>	
<b>COLOUR</b>	Full color range or matchings on request.
<b>GLOSS LEVEL</b>	Full gloss (other levels available).
<b>WEATHERING</b>	Not recommended for exterior use.
<b>CHEMICAL RESISTANCE</b>	Excellent
<b>SOLVENT RESISTANCE</b>	Excellent.
<b>ABRASION RESISTANCE</b>	Very good.
<b>TEMPERATURE RANGE</b>	Up to 150 °C (dry).
<b><u>TECHNICAL DATA</u></b>	
<b>RECOMMENDED FILM BUILD</b>	100 microns (wet) per coat - 40 microns (dry) per coat
<b>VOLUME SOLIDS</b>	40% (Varies with colour)
<b>THEORETICAL COVERAGE</b>	Approx. 10 sq metres per litre at 100 microns wet.
<b>COMPONENTS</b>	Two.
<b>MIXING RATIO</b>	4A : 1B by volume

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**DRYING AT 25 °C**

Touch dry:	4 hrs	Handleable:	16 hrs
Recoat:	16 hrs	Full cure:	7 days

**CHEMICALLY**

**ASSISTED DRYING AT 25 °C**

Touch dry:	2 hr	Handleable:	8 hrs
Recoat:	8 hrs	Full cure:	3 Days

**POT LIFE AT 25 °C**

8hrs.

**APPLICATION**

Brush, roller, air or airless spray.

**METHODS**

Chemically assisted drying requires air atomisation or shaping air.

**FLASHPOINT**

23 °C

**SHELF LIFE**

12 months (minimum) in original containers

**PACKAGING**

Part A	4 lt.	20 lt.
Part B	1 lt.	5 lt.

### **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 class 2.5 (min)	1st coat : EP210 2-pack anticorrosive Epoxy primer.	150 (75) microns
		Finish coat : EP100 series Epoxy topcoat.	100 - 120 (40 - 48) microns
<b>GALVANISED STEEL</b>	Degrease and Mechanically abrade	1st coat : EP200 2-pack Epoxy primer.	80 - 100 (30 - 40) microns
	New Gal may require acid wash	Finish coat : EP100 series Epoxy topcoat.	100 - 120 (40 - 48) microns
<b>ALUMINIUM</b>	Degrease thoroughly	1st coat : EP200 2-pack Epoxy primer.	80 - 100 (30 - 40) microns
	Abrade if necessary	Finish coat : EP100 series Epoxy topcoat.	100 - 120 (40 - 48) microns
<b>G.R.P.</b>	Remove mould	1st coat : EP200 2-pack Epoxy primer.	80 - 100 (30 - 40) microns
	release or degrease	Finish coat : EP100 series Epoxy topcoat.	100 - 120 (40 - 48) microns
<b>TIMBER *</b>	Sand and remove dust	1st Coat : UT300 or UT310 Clear 2-pack Timber Sealer.	30 microns
* Clear EP100 on externally exposed timber - NOT recommended		2nd Coat : UT220 or UT240 2-pack Sanding Undercoat. <b>OR</b> 1st Coat : EP200 2-pack Epoxy Primer Finish Coat : EP100 Series Epoxy topcoat.	80 - 100 (30 - 40) microns  80 - 100 (30 - 40) microns 100 - 120 (40 - 48) microns
<b>CONCRETE / MASONRY</b>	Acid wash new surfaces.	1st Coat : EP100 2-pack Clear Epoxy Primer.	80 - 100 (30 - 40) microns
	Remove dust, oil, grease and loose material from aged surfaces.	Finish Coat : EP100 Series Epoxy topcoat.	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 neutralised with appropriate products followed by thorough rinsing with clean water.  
Any other foreign matter, e.g. 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.
- 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.

### APPLICATION 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.  
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 EP100 Epoxy Thinner or BC 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 : 385 kpa (50 psi)

**AIRLESS** Standard airless equipment using 28:1 pump ratio and fluid tip range 475 - 525 microns (0.019-.021 inches) and supply air at 520 - 650 kpa (80-100 p.s.i).  
Thin as necessary with EP100 Epoxy Thinner.

**EQUIPMENT CLEANUP** All equipment should be thoroughly cleaned Gunwash.  
with EP100 Epoxy Thinner or BC

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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 switch etc.) must be eliminated in or near, the application area.  
**DO NOT SMOKE.**

This product is polyamide 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 splashes or fumes affect eyes.

##### **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 > 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 (in original containers)  
but depends on storage conditions.

##### **DANGEROUS GOODS**

Part A	Class 3.1	UN	1263	PAINT HFP
Part B	Class 3.2	UN	1866	PAINT HFP

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.