



# EPOXY EFFECTS CO. LTD

## 1:1 COUNTERTOP EPOXY RESIN SYSTEM

### Product Information

Our high performance resin system was designed to deliver an advanced level of shine, clarity and depth and locks in optical qualities of natural wood and art. Used in a variety of applications such as :

Counter Tops , Bar Tops , Furniture, Art Work and other applications requiring a strong, durable plastic coating.

Epoxy Effects CounterTop Resin is crystal-clear and has excellent UV resistance, scratch resistance, water resistance, chemical resistance, mechanical properties & heat resistant up to 120°C. The resin can be poured up to 3mm deep and is self leveling allowing it to create an amazing gloss coat over existing surface or artwork.

Designed for ease of use our 1 to 1 mix ratio system maintains high integrity over corners and a relatively fast set time.

Thanks to the sophisticated system developed additives within the resin create excellent UV protection and help to expel trapped air meaning under normal conditions there is no use for a blowtorch or heat gun.

### Specification

Specification	Epoxy Resin	Part A	Standard
	Appearance	Colourless Transparent Liquid	-----
	Viscosity ( mPa.s 25°C )	11000 - 14000	GB/T 22314-2008
	Epoxy Equivalent (g/eq)	450 - 500	GB/T 4612-2008
	Hardener	Part B	Standard
	Appearance	Colourless Transparent Liquid	-----

	Viscosity ( mPa.s 25°C )	300 - 500	GB/T 22314-2008
<b>Note: Typical performance should not be considered as product specifications</b>			

## Product Data

Mixing and Processing	The resin system shall be mixed in the following proportions		
	Volume Ratio	Resin (Part A)	Hardener (Part B)
		100	100
Mix Viscosity ( mPa.s 25°C )	2000-3000CPS		
Processing Time 25°C	50-80mins		
Gel Time (mins @ 25°C)	45-60mins		
Crystalized (Touch Dry Hours) 25°C	1.5-3 hours		
Cure Conditions	25°C / 5-7 hours / 60°C 2-4 hours		
VOC (Grams/Liters)	0		

## Performance Data

<b>Tensile Modulus (psi)</b>	142,500	TBD	ASTM D638
<b>Tensile Strength</b>	3110	TBD	ASTM D638
<b>Elongation</b>	2.7*	TBD	ASTM D638
<b>Flexural Modulus</b>	80100	TBD	ASTM D638
<b>Flexural Strength</b>	12,575	TBD	ASTM D638
<b>Compression Strength</b>	9,641	TBD	ASTM D695
<b>Hardness (Shore D)</b>	75-80	TBD	ASTM D2240

## Cured Properties

<b>Finish</b>	Crystal Clear
<b>Permeable</b>	No
<b>Can be painted</b>	No
<b>Fills gaps</b>	Yes
<b>Removable</b>	No
<b>Flexible</b>	Depends on desired system
<b>Antibacterial</b>	Yes

**Flash Point**

➤ 357°F (180.6°C)

## Packing, Storage & Shelf Life

1. Epoxy resin at 25 °C to 35°C , dry and original sealed packaging storage conditions, epoxy resin chemistry The shelf life of the property is at least 12 months.
2. Hardener should be placed in the original packaging, placed in a dry and cool place, avoid direct sunlight, the temperature should not be higher than 25°C. Its chemical properties can be kept for at least 6 months.

### Personal Protection

<b>Personal Protection Equipment</b>	Protective imperious gloves to avoid skin contact.
<b>Respiratory Protection</b>	No special protection required
<b>Eye Protection</b>	Chemical anti-splash goggles are recommended.
<b>Body Protection</b>	Use protective clothing that blocks this product, use protective boots, gloves, protective clothing, eye washers as appropriate.

### Urgent Processing

<b>Skin Touch</b>	Rinse the contaminated area thoroughly with soapy water and clear water for 5 minutes or until the contaminants are removed.
<b>Eye Touch</b>	Lift the eyelids and rinse the eyes with flowing water or saline for 20 minutes or until the contaminants are removed.
<b>Inhalation</b>	<ol style="list-style-type: none"> <li>1. Leave the scene to fresh air.</li> <li>2. Consult a doctor immediately if you have any symptoms.</li> </ol>

<b>Attention</b>	<ol style="list-style-type: none"> <li>1. Accurate proportioning and thorough and uniform mixing are the key to the best performance of the resin system. When mixing, be sure to stir the sides, bottom and corners of the mixing container evenly.</li> <li>2. Sealing the container containing the amine curing agent and mixing system during</li> </ol>
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	<p>transport, distribution and use minimizes the adverse effects of moisture.</p> <p>3. At room temperature, the epoxy resin and the amine curing agent in the system will continue to react after mixing, and care must be taken to avoid inadvertent mixing of system components.</p>
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