



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

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

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

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

Cured Properties

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

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

Urgent Processing

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

Attention

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.
2. Sealing the container containing the amine curing agent and mixing system during



	<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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EPOXY EFFECTS CO. LTD 2:1 FLOOR RESIN SYSTEM

Product Information

Our two-component Internal Epoxy Floor system is 100% VOC-free, 100% solid, antibacterial and odour free.

Specially formulated for Excellent UV Protection, water resistance, chemical resistance, Scratch Resistance, long pot life and working time.

Designed for ease of use our 2 to 1 mix ratio system can be mixed with a variety of tints, pigments and mica powders to create stunning floors as well as be laid clear to create penny flooring or any other project you can imagine.

Thanks to Macromolecule antioxidants added to our resin it helps stop the process of yellowing creating Excellent UV protection.

Specification

Specification	Epoxy Resin	Part A	Standard
	Appearance	Colourless Transparent Liquid	-----
	Viscosity (mPa.s 25°C)	1000-2000	GB/T 22314-2008
	Epoxy Equivalent (g/eq)	195 - 210	GB/T 4612-2008
	Hardener	Part B	Standard
	Appearance	Colourless Transparent Liquid	-----
	Viscosity (mPa.s 25°C)	100 - 200	GB/T 22314-2008
Note: Typical performance should not be considered as product specifications			

Product Data

Mixing and Processing	The resin system shall be mixed in the following proportions		
	Volume Ratio	Resin (Part A)	Hardener (Part B)
		100	50
Mix Viscosity (mPa.s 25°C)	1000-1500		
Processing Time 25°C	50-80mins		
Gel Time (mins @ 25°C)	45-60mins		
Cure Conditions	25°C / 12-48hours / 60°C 2-4 hours		

Performance Data

Tensile Modulus (psi)	401365	TBD	ASTM D638
Tensile Strength	6270	TBD	ASTM D638
Elongation	2.7*	TBD	ASTM D638
Flexural Modulus	401532	TBD	ASTM D638
Flexural Strength	12,575	TBD	ASTM D638
Compression Strength	9,641	TBD	ASTM D695
Hardness (Shore D)	75-80	TBD	ASTM D2240

Cured Properties

Finish	Crystal Clear
Permeable	No
Can be painted	No
Fills gaps	Yes
Removable	No
Flexible	Depends on desired system
Antibacterial	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	
Personal Protection Equipment	Protective imperious gloves to avoid skin contact.
Respiratory Protection	No special protection required
Eye Protection	Chemical anti-splash goggles are recommended.
Body Protection	Use protective clothing that blocks this product, use protective boots, gloves, protective clothing, eye washers as appropriate.

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

Attention	<ol style="list-style-type: none"> 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. 2. Sealing the container containing the amine curing agent and mixing system during transport, distribution and use minimizes the adverse effects of moisture. 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.
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EPOXY EFFECTS CO. LTD

3:1 DEEP POUR CASTING SYSTEM

Product Information

Our two-component 3:1 Deep Pour Casting system is Crystal Clear, UV resistant, Self-Degassing, High Strength & Hardness.

Our casting resin is used to create: River Tables, Sculptures, paperweights, place mats, coaster, bowls, vases and more!

Can be poured up to 70mm when casting into moulds depending on working temperature, care should be taken to avoid risk of overheating project.

When Casting directly with wood a single pour is recommended at 30-50mm.

Specification

Specification	Epoxy Resin	Part A	Standard
Appearance	Colourless Transparent Liquid	-----	
Viscosity (mPa.s 25°C)	500-1000	GB/T 22314-2008	
Specific Gravity 25°C	1.05	GB/T 4612-2008	
	Hardener	Part B	Standard
Appearance	Colourless Transparent Liquid	-----	
Viscosity (mPa.s 25°C)	100	GB/T 22314-2008	
Specific Gravity 25°C	0.96	Gb/t 4612-2008	
Note: Typical performance should not be considered as product specifications			

Product Data

Mixing and Processing	The resin system shall be mixed in the following proportions		
	Volume Ratio	Resin (Part A)	Hardener (Part B)
		100	30
Weight Ratio	100	33	
Processing Time 25°C	40-60mins		
Cure Conditions	25°C / 8-10hours / 60°C 2-4 hours		
Hardness	Shore D	<85	
Voltage Resistance	KV/mm	22	
Bending Strength	KG/mm ²	23	
Volume Resistance	Ohm3	1x10 ¹⁵	
Surface Resistance	Ohmm2	5x10 ¹⁵	
Thermal Conductivity	W/M.K	0.61	
Inductive Loss	1KHZ	0.42	
High Heat Resistance Temperature	°C	80	
Water Absorption	%	<0.15	
Compressive Strength	Kg/mm ²	13.4	

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

	protective clothing, eye washers as appropriate.
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Urgent Processing

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

Attention	<ol style="list-style-type: none"> 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. 2. Sealing the container containing the amine curing agent and mixing system during transport, distribution and use minimizes the adverse effects of moisture. 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.
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