



EPOXY EFFECTS CO. LTD 2:1 RESIN SYSTEM

Product Information

Our two-component Internal Epoxy 2:1 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 applications such as : Counter Tops, Bar Tops , Furniture, Art Work and other applications requiring a strong, durable plastic coating.

Epoxy Effects 2:1 Resin is crystal-

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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