

## General Description:

EPODECOR # 1000 is a latest generation, 100% solids, two component epoxy system, non-toxic, characterized with a high degree of crystal-like transparency and resistance to yellowing due to exposure to UV rays and material decay. The low exothermic peak of reactions allows the material to use with high thickness. It has an excellent chemical, mechanical resistance and anti-carbonation property.

## Major Uses:

It is highly transparent system for casting. It is suitable in the application of decorative flooring, creation of transparent object with crystal effects, furnishing elements and artistic design. It is widely used for thick lamination of wooden tables, treatment of stone ornamentals such as marble, granite and slate in order to improve its aesthetic effect.

## Characteristics and Physical Properties:

Properties	Method	Unit of Measurement	EPODECOR # 1000	EPODECOR # 500
Colour	Visual		Transparent	transparent
		Gardner	0.3 max	0.5 max
Density @ 25°C	ASTM D 1475	Grams/liter	1.140	0.980
Viscosity @ 25°C	ASTM D 2196	mPas	2000-2200	70-100

## Application Characteristics

Properties	Unit of Measurement	EPODECOR # 1000	EPODECOR # 500
Mixing ratio	Weight	100 : 35	
Mix viscosity @ 25°C	mPas	1000 - 1100	
Gel time @ 25°C	150 ml	5 hours	
Minimum temperature	°C	20	
Curing time @ 25°C	1000 ml, 40 mm	60 – 72 hours	
Complete curing @ 25°C	1000 ml, 40 mm	7 days	

## Characteristics and Mechanical Properties

Properties	Method	Unit of Measurement	EPODECOR # 1000	EPODECOR # 500
Colour after 7 days curing	ASTM D 1544	Gardner	0.5 max	
Maximum temperature	IEC 60085	°C	57	
Flexural Strength	ASTM D 790	Mpa	100	
Tensile Strength	ASTM D 638	Mpa	65	
Modulus of Elasticity	ASTM D 790	MN/m <sup>2</sup>	3400 ± 100	
Elongation at break	ASTM D 638	%	3.2 ± 0.2	

The above information is given to the best of our knowledge based on laboratory test and practical experience. However, as the paint is often used under condition beyond our control, we cannot guarantee anything but the quality of the paint itself. We reserve the right to change the given data without prior notice.

### MAS PAINTS & CHEMICAL INDUSTRY

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## Instruction for use:

The ambient temperature and the component must not be lower than 20°C. Mix the two components with the proper weight ratio respecting the stoichiometry of use (100:35).

Any variation in the mixing could irreparably undermine the characteristics of the final finished product. Thoroughly mix the two components, avoid excessive turbulence that will cause dangerous air inclusions.

## Curing:

The system will fully cures at room temperature. The temperature of the surface where the product will be applied must not be less than + 10°C and the system will reach the maximum curing after 10 – 15 days.

## Storage:

The two components, if stored in containers well closed and in dry environment up to 10 – 35°C are usable up to a year of their production. At temperature lower than 10°C, the material will crystallize. To bring back the crystallize material into its liquid state of use, put them in an oven or water bath for about 70 – 80°C until the complete dilution. Rehomogenize and cool to room temperature before use.

## Packing:

Product Description	15 kg	5 kg
Epodecor # 1000 - A	11.10 kg	3.70 kg
Epodecor Hardener # 500 - B	3.90 kg	1.30 kg

## Warnings:

Keep resin and hardener away from eyes and skin contact. Good ventilation should be provided particularly in closed work areas. Keep uncured epoxy materials away from the mouth, food or drink; do not use empty cans into drains. Always wear gloves and safety materials when handling this product. Clean any splashes or smears from the skin immediately and use cream barriers. Rinse with fresh water and soap if contact with skin or eyes occur and seek immediate medical advice.

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