

## Curing Agent Dicyandiamide

### I Description

Dicyandiamide (DICY) is a kind of white crystalloid used as curing agent in pure epoxy powder coatings. Powder coatings made of DICY is characteristics of good adhesion and anti-corrosive property.

### II Technical data

Dicyandiamide	Test Method	Specification
Appearance	Visualization	White crystal powder
Melting range	GB/T 617-2006	208~211°C
Solid Content	GB/T 1725-2008	≥99.0%

### III Application

1. Recommended ratio of epoxy resin against Dicyandiamide is around 20:1. Premix them thoroughly before extruding.
2. Since dicyandiamide's melting point is high and the chemical reactivity is low, it is recommend to add imidazole or other imidazole catalyst (such as JG803A) to increase activity and cure completely under baking condition of 180°C/30min.
3. Dicyandiamide is stable in dry condition but could dissolve in water and ethanol. Thus it is strongly suggested to seal the bag after use and keep the material in dry condition.

### IV Recommended Formula (based on white powder coating)

S.N.	RM		Supplier	Formula
1	E12	EP	SSC	714
2	Dicyandiamide(DICY)	Curing Agent	SSC	36
3	JG803A	Catalyst	SSC	4
4	GLP588	Leveling Agent	SSC	10
5	Benzoin	Degassing Agent	SSC	4
6	R902	TiO <sub>2</sub>	DuPont	200
7	Super fine BaSO <sub>4</sub>	BaSO <sub>4</sub>	Dong Feng	32
<b>Total</b>				<b>1000</b>
Extruding condition: 90~100°C; Baking condition: 180°C/30min; 190°C/20min.				

### V Package, Storage & Handling

Available in polyethylene-lined, multi-ply paper bags, N.W.25KGS/Bag, 625KG/PLT, 12.5MT/20# FCL.

Keep in the cool and dry place with temperature below 35°C, keep away from fire.

Shelf life is one year since production date. Seal the package well after using.

Refer to the MSDS for further information.

