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## **Technical Data Sheet – R-Cord 4AU & IPBE 4U**

### **R-Cord 4AU**

#### **Description:-**

R-Cord 4AU is a special modified, low viscosity, liquid epoxy resin for Wooden Casting & Lamination, etc. When it is used with appropriate epoxy hardener, it provides excellent combination of properties including mechanical, thermal, chemical and physical.

#### **Applications**

Lamination

Casting

### **IPBE 4U**

#### **Description:-**

IPBE 4U is low color, low viscosity modified Cycloaliphatic amine UV resistant hardener suitable to cure epoxy resin at ambient temperature. The cured mass gives high gloss with excellent surface finish suitable for casting and lamination applications. The film withstand variety of chemicals includes acid, alkali, alcohols and hydrocarbon solvents.

Advantages

Low viscosity

UV Resistant

Fast setting

Excellent chemical resistance

High gloss

#### **Applications**

Lamination  
Casting

### Technical Data

Property	Unit	Test Method	Resin(A)	Hardener(B)
Appearance		Visual	Clear Liquid Modified Bisphenol A	Clear Liquid Modified Cycloaliphatic
Viscosity	mPas (25°C)	ASTM D	500-600	350-450
Density	g/cm <sup>3</sup> (25°C)	ASTM D	1.10	1.04

### Typical Properties

Property	Unit	Test Method	Value A/B
Mixing Ratio	By Weight	-	100:30
Pot Life	Min(25°C)	-	45-90
Curing Time	°C/hr	-	80/1 or 25/10
Temperature Range of use	°C	-	40°C to 100°C
Hardness	Shore A	ASTM D	80-90
UV Resistant		ASTM D	Partial
Compressive Strength (7 Days)	MPa(psi)	ASTM D	72.5
Compressive Modulus (7 Days)	MPa(psi)	ASTM D	2000(2.9 X 10 <sup>5</sup> )
Tensile Properties (7 Days)	MPa	ASTM D	48.3

Flexural Strength (14 Days)	MPa	ASTM D	75.9
Shear Strength (14 Days)	MPa	ASTM D	33.1
Water Absorption (7 Days)	24 Hrs Immersion	ASTM D	0.27%

**Theoretical Coverage :-**

10-12 sq.ft/Kg @ 1mm DFT.

**Packing Size:-**

(Resin : Hardener)

(40 Kg : 12 Kg)

(240 Kg : 200 Kg)