

## IMT-CE33-2K FIBER-OPTICS EPOXY ADHESIVE

IMT-CE33-2K is a two components fiber-optics epoxy adhesive. This epoxy adhesive has shown excellent viscosity stability at room temperature after premixed. It is designed for standard box oven cure as well as rapid cure within five minutes at elevated temperature. This product has an outstanding adhesion to glass, ceramics, metals, plastics, PCB, etc.

IMT-CE33-2K possesses superior chemical, heat, moisture resistance and anti-shock properties that make it an excellent structural adhesive. This product does not contain any solvent and is a 100% solid system. It complies to RoHS3, EU directive 2015/863 as well as Substances of Very High Concern (SVHC) published by ECHA.

### TYPICAL PROPERTIES\*

Mix Ratio (by weight) 100 of Part A (Resin) to 5 of Part B (Hardener)

Cure Conditions  
1. 100°C for 60mins or  
2. 125°C for 15mins or  
3. 150°C for 5mins

#### Physical Properties

Color	Light yellow before cure & dark red after cure
Consistency	Medium viscosity liquid
Specific Gravity	1.15
Viscosity @50rpm, 25°C	2,000 to 4,000cPs
Shore D Hardness	87
Glass Transition Temperature	> 130°C
Flexural Strength	1,000Kg/cm <sup>2</sup>
Flexural Modulus	28,100Kg/cm <sup>2</sup>
Tensile Strength	529Kg/cm <sup>2</sup>
Compressive Strength	1,940Kg/cm <sup>2</sup>
Moisture Absorption after 1hr Boiling	0.5Wt %
Operating Temperature Range	-45°C to above 150°C

#### Electrical & Optical Properties

Volume Resistivity	> 1 x 10 <sup>14</sup> Ωcm
Dielectric Constant (10KHz)	3.9
Dissipation Factor	0.009
Refractive Index	1.576

Pot Life	> 24 hours at room temperature
Shelf Life	12 months at room temperature in closed container

---

**IN-MAT TECHNOLOGIES (S) PTE LTD**  
623 ALJUNIED ROAD, #05-09, ALJUNIED INDUSTRIAL COMPLEX  
SINGAPORE 389835

Tel / Whatsapp / Wechat: +65-8688 8711

E-Mail: [sales@inmat-tech.com](mailto:sales@inmat-tech.com)

Website: [www.inmat-tech.com](http://www.inmat-tech.com)

\* The information is based on data and tests believed to be accurate. In-Mat Technologies (S) Pte Ltd makes no warranties as to its accuracy and assumes no liability in connection with the use or inability to use this product.