

## Shenzhen Jianghe New Materials Technology Co.,Ltd

### Technical Data Sheet (TDS)

Doc No.: EPR-2120A+588B-K-TDS-010

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## 2120A+588B-K

### Typical Properties

Epoxy Resin 2120A+588B-K cures effectively at both ambient and elevated temperatures, delivering high transparency, excellent surface gloss, and superior self-debubbling performance.

### Applications

Epoxy Resin 2120A+588B-K is specifically engineered for floor surface coating (primer), module potting, mold casting, and electronic component protection including insulation, moisture-proof encapsulation, and secure shielding. It is also suitable for mixing with sand or stone as a paving base material.

### Physical & Chemical Properties

| Property                     | Part A: 2120A           | Part B: 588B-K          |
|------------------------------|-------------------------|-------------------------|
| Color                        | Light blue, Transparent | Light blue, Transparent |
| Density (g/cm <sup>3</sup> ) | 1.02±0.03               | 1±0.02                  |
| Viscosity (mPa·s)            | 1000±500                | 300±50                  |
| Mix Ratio (by Weight)        | 2 : 1                   |                         |

## Properties of Cured Material

| Property                   | Base + Curing Agent |
|----------------------------|---------------------|
| Physical State             | Liquid              |
| Viscosity (mPa·s)          | 700±100mPa.S        |
| Pot Life (50g mass @ 25°C) | 30±5 min            |

## Processing & Curing Parameters

|                                    |               |
|------------------------------------|---------------|
| Initial Cure (2mm thickness, 20°C) | 13 hours, 80D |
| Full Cure (2mm thickness, 20°C)    | 24 hours      |
| Service Temperature Range          | < 70°C        |

## Application Instructions

Working Conditions: Ensure the mixing container is clean. Measure Components A and B strictly by the designated weight ratio. After accurate weighing, stir the mixture thoroughly in a clockwise direction, scraping the inner walls of the container. Allow the mixture to rest for 3-5 minutes before application.

## Precautions

- Dosage Control:** Prepare the adhesive quantity based on the pot life and application rate to avoid waste.
- Low-Temperature Handling:** When the ambient temperature falls below 15°C, preheat Component A to 30°C before mixing to facilitate easier application, as the viscosity increases in cold conditions.
- Storage After Use:** The container must be sealed immediately after use to prevent moisture absorption, which can render the product unusable.
- High-Humidity Curing:** At relative humidity levels above 85%, the cured surface is prone to absorbing moisture from the air, forming a whitish haze. Therefore, room temperature curing is not recommended under these conditions; heat-assisted curing is advised.

## Test Result

|                                    |         |      |
|------------------------------------|---------|------|
| <b>Hardness</b>                    | Shore D | 85±3 |
| <b>Flexural Strength</b>           | Kg/mm2  | 27   |
| <b>Heat Deflection Temperature</b> | °C      | 48   |
| <b>Water Absorption</b>            | %       | <0.1 |
| <b>Compressive Strength</b>        | Kg/mm2  | 8.3  |

## Save

|                                        |                                                         |              |
|----------------------------------------|---------------------------------------------------------|--------------|
| <b>Freeze-Sensitive</b>                | Yes                                                     |              |
| <b>Moisture-Sensitive</b>              | Resin                                                   | Curing Agent |
|                                        | No                                                      | Sensitive    |
| <b>Recommended Storage Temperature</b> | 15°C to 25°C (Must not fall below 10°C or exceed 50°C.) |              |
| <b>Shelf Life</b>                      | 6 months in original, unopened packaging                |              |
| <b>Packaging</b>                       | Resin                                                   | Curing Agent |
|                                        | 5 kg pail                                               | 5 kg pail    |

**Note:** The performance data provided above are typical values obtained under laboratory conditions of 25°C and 70% relative humidity. They are for reference purposes only.