

ANCAMINE[®] 2089M**Curing Agent****DESCRIPTION**

Ancamine 2089M is a modified aliphatic amine which has been designed for use as an ambient temperature curing agent for liquid epoxy resin. The ability to cure rapidly at low temperatures under adverse humidity makes it particularly suitable for adhesives and concrete patching applications. The light colour, high reactivity and ability to give high gloss films at room temperature makes it ideal accelerator for cycloaliphatic amine cured coatings and flooring.

TYPICAL PROPERTIES

| Property | Value | Unit | Method |
|-------------------------|---------------------|----------|---|
| Appearance | Light yellow liquid | | |
| Colour | 2 | Gardner | ASTM D 1544-80 |
| Viscosity @ 25°C | 80-150 | mPa.s | Brookfield RVTD, Spindle 4 |
| Amine Value | 380-410 | mg KOH/g | Perchloric Acid Titration |
| Specific Gravity @ 21°C | 1.07 | g/ml | |
| Equivalent | 75 | Wt/{H} | |
| Recommended use Level | 40 | PHR | With Bisphenol A diglycidyl ether (EEW=190) |

ADVANTAGES

- Rapid cure at low temperature under adverse humidity conditions
- Low colour
- High gloss films at room temperature
- Excellent chemical resistance to water, inorganic acids and alkalis

APPLICATIONS

- Adhesives and concrete patch repair
- Accelerator for cycloaliphatic amine cured coatings and floorings

SHELF LIFE

At least 24 months from the date of manufacture in the original sealed container at ambient temperature.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamine 2089M curing agent.

TYPICAL HANDLING PROPERTIES

| Property | Value | Unit | Method |
|----------------------------------|-------|------|------------------------------|
| Mixed Viscosity @ 25°C | 2,000 | mPas | Brookfield RVTD, Spindle 4 |
| Gel Time (150g mix @ 25°C) | 11 | mins | Techne GT-3 Gelation Timer |
| Peak Exotherm (150g mix at 25°C) | 146 | °C | |
| Time to Peak Exotherm | 20 | mins | |
| Thin Film Set Time @ 25°C | 2 | h | BK Drying Recorder Phase III |
| Typical cure schedule | 2- 7 | days | |

TYPICAL PERFORMANCE PROPERTIES

| Property | Value | Unit | Method |
|-----------------------------|-------|------|-----------|
| Tensile Strength | 39 | MPa | ISO 527 |
| Tensile Modulus | 3.9 | GPa | ISO 527 |
| Tensile Elongation at Break | 1.0 | % | |
| Flexural Strength | 60 | MPa | ISO 178 |
| Flexural Modulus | 3.2 | GPa | ISO 178 |
| Heat Distortion Temperature | 56 | °C | ASTM D648 |

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