

ANCAMIDE[®] 3419**Curing Agent****DESCRIPTION**

Ancamide 3419 curing agent is a low viscosity amidoamine curing agent designed for use with liquid epoxy resin. Ancamide 3419 curing agent offers low viscosity and long pot life. Ancamide 3419 curing agent is recommended for high temperature applications such as coatings, sealants, mortars and pipe rehabilitation. The raw materials of Ancamide 3419 curing agent are listed on the positive list of KTW app. 1 submission April 2008.

TYPICAL PROPERTIES

| Property | Value | Unit | Method |
|-------------------------|--------------------|----------|--|
| Appearance | Clear amber liquid | | |
| Colour | max 10 | Gardner | ASTM D 1544 |
| Viscosity @ 25°C | 50-160 | mPa.s | Brookfield RVTD, Spindle 4 |
| Amine Value | 180-300 | mg KOH/g | Perchloric Acid Titration |
| Specific Gravity @ 21°C | 0.94 | | |
| Equivalent | 140 | Wt{H} | |
| Recommended use Level | 75 | PHR | With bisphenol-A based epoxy resin (EEW=187) |

ADVANTAGES

- Low viscosity
- Long pot life
- High temperature performance

APPLICATIONS

- Coatings and sealants
- Pipe rehabilitation
- Mortar floors

SHELF LIFE

At least 24 months from the date of manufacture in the original sealed container at ambient temperature. Store away from excessive heat and humidity in tightly closed containers.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamide 3419 curing agent.

TYPICAL CURE SCHEDULE

2-7 days at ambient temperature, or 2 h @ 80°C

TYPICAL HANDLING PROPERTIES*

| Property | Value | Unit | Method |
|-----------------------------|-------|-------|---------------------------------------|
| Mixed Viscosity @ 25°C | 640 | mPa.s | Brookfield RVTD, Spindle 4 |
| Gel Time (150g mix at 25°C) | 520 | min | Techne GT-3 Gelation Timer, 150 g mix |
| Time to 10,000 mPa.s @ 40°C | 158 | min | Rheometer with cone-plate set-up |
| Time to 10,000 mPa.s @ 70°C | 26 | min | Rheometer with cone-plate set-up |

TYPICAL PERFORMANCE PROPERTIES*

| Property | Value | Unit | Method |
|------------------------------|-------|------|-----------------------------|
| Glass Transition Temperature | | | |
| First heating scan | 40 | °C | DSC @ 10°C/min heating scan |
| Cured for 2 h @ 80°C | 55 | °C | DSC @ 10°C/min heating scan |

* With bisphenol-A based epoxy resin (EEW=187)

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