

## Product information

# ANCAMINE® 2609W

## Curing Agent

### DESCRIPTION

Ancamine® 2609W curing agent is a nonyl phenol free aliphatic polyamine Mannich base curing agent designed for use with liquid epoxy resin. It is of low viscosity, moisture tolerant and reactive at low temperatures (~5°C). Ancamine® 2609W will react with liquid epoxy resins at low temperature and high humidity to produce a chemical resistant surface coating.

### TYPICAL PROPERTIES

| Property                | Value              | Unit     | Method   |
|-------------------------|--------------------|----------|--|
| Appearance              | Clear amber liquid |          |  |
| Colour                  | max 5              | Gardner  | ASTM D 1544  |
| Viscosity @ 25°C        | 300-600            | mPa.s    | Brookfield RVTD, Spindle 4                         |
| Amine Value             | 360-420            | mg KOH/g | Perchloric Acid Titration                          |
| Specific Gravity @ 21°C | 1.01               |          |  |
| Equivalent              | 75                 | Wt/{H}   |  |
| Recommended use Level   | 40                 | PHR      | Cured with bisphenol-A based epoxy resin (EEW=190) |

### ADVANTAGES

- Moisture tolerant
- Fast cure
- Low temperature cure
- Excellent chemical resistance
- Compliant with German KTW regulations for coatings for potable water

### APPLICATIONS

- Protective coatings
- Industrial applications
- Potable water coatings

## 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 Ancamine 2609W curing agent.

## TYPICAL HANDLING PROPERTIES

| Property                             | Value | Unit | Method                                    |
|--------------------------------------|-------|------|---|
| Gel Time (150g mix at 25°C)          | 15    | mins | Techne GT-3 Gelation Timer, 150 g mix     |
| Thin Film Set Time @ 25°C            | 2     | h    | ASTM D 5895 - BK Drying Recorder, Phase 3 |
| PersoZ Pendulum Hardness 24 h @ 25°C | 380   | s    | ASTM D 4366                               |
| Hardness Shore D 24 h @ 25°C         | 80    |      | ASTM D 2240                               |
| Typical cure schedule                | 2-7   | days |   |

## TYPICAL PERFORMANCE PROPERTIES

| Property                    | Value | Unit | Method     |
|-----------------------------|-------|------|------------|
| Compressive Strength        | 102   | MPa  | ASTM D 695 |
| Compressive Modulus         | 1.04  | GPa  | ASTM D 695 |
| Tensile Strength            | 46    | MPa  | ASTM D 638 |
| Tensile Modulus             | 7.6   | GPa  | ASTM D 638 |
| Tensile Elongation at Break | 3     | %    | ASTM D 638 |
| Flexural Strength           | 74    | MPa  | ISO 178    |
| Flexural Modulus            | 3.6   | GPa  | ISO 178    |

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