

ANCAMINE® 2405 Curing Agent

DESCRIPTION

Ancamine 2405 is an epoxy curing agent, based on a polycyclic polyamine, developed specifically for use at low temperatures (5-10°C) to complement the room temperature curing agent Ancamine 2280.

ADVANTAGES

- Good low temperature reactivity down to 5°C
- Excellent through-cure at 5°C (as measured by rapid development of hardness)
- Fast back-in service and good overcoatability
- Excellent resistance to amine blush and water-spotting
- Excellent chemical resistance comparable to Ancamine 2280

APPLICATIONS

- Chemically resistant high solids and solvent free coatings
- Industrial flooring applications such as self-leveling floors and mortar floors
- High solids coatings and primers

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 2405 curing agent.

TYPICAL PROPERTIES

| | |
|---|--------------|
| Appearance | Amber liquid |
| Colour¹ (Gardner) | 11 |
| Viscosity² @ 25°C [mPa.s] | 600-1,100 |
| Amine Value³ [mg KOH/g] | 240-280 |
| Specific Gravity @ 25°C [g/ml] | 1.03 |
| Flash Point (closed cup), [°C] | >100 |
| AHEW | 127 |
| Recommended use Level phr (EEW=190) | 60-65 |

TYPICAL HANDLING PROPERTIES

| | |
|--|-----------|
| Mixed Viscosity² at 25°C, [mPa.s] | 4,500 |
| Gel Time⁴ (150g mix at 25°C), [mins] | 34 |
| Thin Film Set Time⁵ @ 25°C, [h] | 3/5.5 |
| Thin Film Set Time⁵ @ 5°C, [h] | 22/39 |
| Peak Exotherm (°C) 100g mass @ 25°C | 121 |
| Time to Peak Exotherm [mins] | 40 |
| Shore D 20°C (24 h) | 76 |
| Typical cure schedule | 2- 7 days |

TYPICAL PERFORMANCE PROPERTIES

| | |
|--|------|
| Compressive Strength⁶, [MPa] | 100 |
| Compressive Modulus⁶, [GPa] | 2.5 |
| Tensile Strength⁷, [MPa] | 36 |
| Tensile Modulus⁷, [GPa] | 7.1 |
| Tensile Elongation at Break [%] | 0.6 |
| Flexural Strength⁸, [MPa] | 112 |
| Flexural Modulus⁸, [GPa] | 14.8 |
| Heat Distortion Temperature, [°C] | 54 |

Footnotes:

- (1) Gardner scale
- (2) Brookfield RVTD, Spindle 4
- (3) Perchloric Acid Titration
- (4) Techne GT-4 Gelation Timer
- (5) BK Drying Recorder (tack free/hard dry)
- (6) ISO 604
- (7) ISO 527
- (8) ISO 178

Epoxy Curing Agents and Modifiers

ANCAMINE® 2405 Curing Agent

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