

ANCAMIDE® 2050**Curing Agent****DESCRIPTION**

Ancamide 2050 is an accelerated polyamide adduct designed for use with liquid epoxy resin in the formulation of high solids coatings with low volatile (solvent) contents. The non-critical loading of between 70 and 100 phr, including 1:1 by volume with standard liquid epoxy resin, allows at 70 phr for optimum chemical resistance and pot-life, and at 100 phr for enhanced flexibility and impact resistance.

TYPICAL PROPERTIES

| Property | Value | Unit | Method |
|-------------------------|--------------|----------|---------------------------------------------|
| Appearance | Amber Liquid | | |
| Colour | 12 | Gardner | ASTM D 1544-80 |
| Viscosity @ 25°C | 2000-5000 | mPa.s | Brookfield RVTD, Spindle 4 |
| Amine Value | 210-230 | mg KOH/g | Perchloric Acid Titration |
| Specific Gravity @ 21°C | 1.01 | | |
| Equivalent | 150 | Wt/{H} | |
| Recommended use Level | 70-100 | PHR | With Bisphenol A diglycidyl ether (EEW=190) |

ADVANTAGES

- Good through cure and appearance at 10°C
- Good corrosion resistance
- Low viscosity
- Zero induction time at ambient temperature
- High-gloss finish
- Non-critical loading (70-100 phr)

APPLICATIONS

- High-solids marine and maintenance coatings
- High-solids lining coatings
- High-solids primers and coatings for concrete
- Sealants and putties

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 Ancamide 2050 curing agent.

TYPICAL HANDLING PROPERTIES (70 PHR)*

| Property | Value | Unit | Method |
|----------------------------------|-------|-------|------------------------------|
| Mixed Viscosity at 25°C | 6,400 | mPa.s | Brookfield RVTD, Spindle 4 |
| Gel Time (150g mix at 25°C) | 140 | mins | Techne GT-3 Gelation Timer |
| Peak Exotherm (150g mix at 25°C) | 35 | °C | |
| Thin Film Set Time 25°C | 7 | h | BK Drying Recorder Phase III |

TYPICAL HANDLING PROPERTIES (100 PHR)*

| Property | Value | Unit | Method |
|----------------------------------|-------|-------|------------------------------|
| Mixed Viscosity at 25°C | 5,000 | mPa.s | Brookfield RVTD, Spindle 4 |
| Gel Time (150g mix at 25°C) | 80 | mins | Techne GT-3 Gelation Timer |
| Peak Exotherm (150g mix at 25°C) | 40 | °C | |
| Thin Film Set Time 25°C | 6 | h | BK Drying Recorder Phase III |
| Typical cure schedule | 2-7 | days | |

TYPICAL PERFORMANCE PROPERTIES

| Property | Value | Unit | Method |
|-----------------------------|-------|-------|-----------|
| Direct Impact Resistance | 180 | cm.kg | |
| Reverse Impact Resistance | 180 | cm.kg | |
| Heat Distortion Temperature | 42 | °C | ASTM D648 |

* With Bisphenol A diglycidyl ether (EEW=190)

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EVONIK OPERATIONS GMBH

Business Line Crosslinkers
Paul-Baumann-Str. 1
45764 Marl
Germany

www.evonik.com/crosslinkers

Product Information: APCSE@evonik.com

Sample Request: APCSE@evonik.com

EVONIK CORPORATION

Business Line Crosslinkers
7201 Hamilton Blvd.
Allentown, PA 18195
USA

CrosslinkersProinfo@evonik.com

Crosslinkers-Samples@evonik.com

**EVONIK SPECIALTY CHEMICALS
(SHANGHAI) CO., LTD.**

Business Line Crosslinkers
55, Chundong Road
Xinzhuang Industry Park
Shanghai, 201108
China

CL-Asiainfo@evonik.com

CL-Asiainfo@evonik.com

