

**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.

**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 PROPERTIES**

<b>Appearance</b>	Amber liquid
<b>Colour<sup>1</sup> (Gardner)</b>	12
<b>Viscosity<sup>2</sup> @ 25°C [mPa.s]</b>	2000-5000
<b>Amine Value<sup>3</sup> [mg KOH/g]</b>	210-230
<b>Specific Gravity @ 21°C, [g/ml]</b>	1.01
<b>Equivalent Wt/{H}</b>	150
<b>Recommended use Level<sup>4</sup> [PHR]</b>	70-100

**TYPICAL HANDLING PROPERTIES (70 PHR)<sup>4</sup>**

<b>Mixed Viscosity<sup>2</sup> at 25°C, [mPa.s]</b>	6,400
<b>Gel Time<sup>5</sup> (150g mix at 25°C), [mins]</b>	140
<b>Peak Exotherm (150g mix at 25°C), [°C]</b>	35
<b>Thin Film Set Time<sup>6</sup> 25°C, [h]</b>	7

**TYPICAL HANDLING PROPERTIES (100 PHR)<sup>4</sup>**

<b>Mixed Viscosity<sup>2</sup> at 25°C, [mPa.s]</b>	5,000
<b>Gel Time<sup>5</sup> (150g mix at 25°C), [mins]</b>	80
<b>Peak Exotherm (150g mix at 25°C), [°C]</b>	40
<b>Thin Film Set Time<sup>6</sup> 25°C, [h]</b>	6
<b>Typical cure schedule 2- 7 days</b>	

**TYPICAL PERFORMANCE PROPERTIES**

<b>Direct Impact Resistance, [cm.kg]</b>	180
<b>Reverse Impact Resistance, [cm.kg]</b>	180
<b>Heat Distortion Temperature<sup>7</sup>, [°C]</b>	42

Footnotes:

- (1) ASTM D 1544-80
- (2) Brookfield RVTD, Spindle 4
- (3) Perchloric Acid Titration
- (4) With Bisphenol A diglycidyl ether (EEW=190)
- (5) Techne GT-3 Gelation Timer
- (6) BK Drying Recorder Phase III
- (7) ASTM D648

Epoxy Curing Agents and Modifiers

# ANCAMIDE® 2050 Curing Agent

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