

**ANCAMINE® 2320** Curing Agent**DESCRIPTION**

Ancamine 2320 is a modified cycloaliphatic polyamine intended for use as an ambient curing agent for liquid epoxy resin. It's based on similar curing agent technology as Ancamine 2280, therefore similarly high chemical resistance is achieved.

Cure speed and through cure of Ancamine 2320 are significantly improved compared to Ancamine 2280 which is particularly apparent at low temperatures. Additionally, Ancamine 2320 exhibits lower viscosity for higher filler loadings.

High Gardner colour and tendency to yellowing upon UV radiation need to be considered in the final application.

**ADVANTAGES**

- Excellent chemical resistance
- Good low temperature cure
- Excellent resistance to amine blush and water-spotting

**APPLICATIONS**

- Industrial flooring
- Chemically resistant tank lining and mortars
- High solids coatings
- Secondary containment

**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 2320 curing agent.

**TYPICAL PROPERTIES**

<b>Appearance</b>	Amber liquid
<b>Colour<sup>1</sup> (Gardner)</b>	max 8
<b>Viscosity<sup>2</sup> @ 25°C [mPa.s]</b>	100-200
<b>Amine Value<sup>3</sup> [mg KOH/g]</b>	280-320
<b>Specific Gravity @ 21°C [g/ml]</b>	1.06
<b>Equivalent Wt/{H}</b>	95
<b>Recommended use Level<sup>4</sup>, [PHR]</b>	50

**TYPICAL HANDLING PROPERTIES**

<b>Mixed Viscosity<sup>2</sup> at 25°C, [mPa.s]</b>	3,800
<b>Gel Time<sup>5</sup> (150g mix at 25°C), [mins]</b>	31
<b>Peak Exotherm (150g mix at 25°C), [°C]</b>	153
<b>Time to Peak Exotherm [mins]</b>	40
<b>Thin Film Set Time<sup>6</sup> @ 25°C, [h]</b>	5
<b>Shore D<sup>7</sup> 20°C (24 h)</b>	77
<b>Typical cure schedule</b>	2- 7 days

**TYPICAL PERFORMANCE PROPERTIES**

<b>Tensile Strength<sup>8</sup>, [MPa]</b>	54
<b>Tensile Modulus<sup>8</sup>, [GPa]</b>	4.6
<b>Flexural Strength<sup>9</sup>, [MPa]</b>	86
<b>Flexural Modulus<sup>9</sup>, [GPa]</b>	2.1
<b>Heat Distortion Temperature<sup>10</sup>, [°C]</b>	48
<b>Carbamation Test<sup>11</sup></b>	4

Footnotes:

- (1) ASTM D 1544-80
- (2) Brookfield RVT-D, 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) DIN 53505
- (8) ISO 527
- (9) ISO 178
- (10) ASTM D648
- (11) Scale 1-5 (5 is best)

Epoxy Curing Agents and Modifiers

# ANCAMINE® 2320 Curing Agent

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