

**ANCAMINE® 2686** Curing Agent**DESCRIPTION**

Ancamine 2686 curing agent is a modified cycloaliphatic polyamine intended for use as a room temperature curing agent for liquid epoxy resin. Based upon Evonik's cycloaliphatic amines, it offers exceptional cost-in-use economics and a broad balance of chemical resistance and surface appearance properties. Ancamine 2686 curing agent provides high mechanical build, rapid cure and is particularly suitable for lower temperature use.

**ADVANTAGES**

- Excellent chemical resistance
- Good low temperature cure

**APPLICATIONS**

- Non-color sensitive applications
- Industrial flooring, screeds, primers, grouts
- Cost sensitive applications
- Chemical resistant tank linings
- High solids coatings
- Secondary containment

**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. Do not freeze.

**STORAGE AND HANDLING**

Refer to the Safety Data Sheet for Ancamine 2686 curing agent.

**TABLE 1: TYPICAL PROPERTIES**

<b>Appearance</b>	Yellow liquid
<b>Color (Gardner)<sup>1</sup></b>	max 12
<b>Viscosity @ 77°F (25°C) (cP)<sup>2</sup></b>	100-400
<b>Amine Value (mg KOH/g)<sup>3</sup></b>	300-350
<b>Specific Gravity @ 70°F (21°C)</b>	1.0
<b>Equivalent Wt/{H}</b>	95
<b>Recommended use Level, [PHR]<sup>4</sup></b>	50

**TABLE 2: TYPICAL HANDLING PROPERTIES<sup>4</sup>**

<b>Gel Time, 150g mix at 77°F (25°C) [min]<sup>5</sup></b>	35
<b>Thin Film Set Time at 77°F (25°C) [h]<sup>6</sup></b>	4.0
<b>Hardness Shore D at 77°F (25°C) [24h]<sup>7</sup></b>	78
<b>Hardness Shore D at 50°F (10°C) [24h]<sup>7</sup></b>	70
<b>Typical cure schedule 2- 7 days</b>	
<b>Compressive Strength, [MPa]<sup>8</sup></b>	90
<b>Compressive Modulus, [GPa]<sup>8</sup></b>	2.2
<b>Flexural Strength, [MPa]<sup>9</sup></b>	93
<b>Flexural Modulus, [GPa]<sup>9</sup></b>	3.0
<b>Heat Distortion Temperature, [°C]<sup>10</sup></b>	50
<b>Carbamation Test<sup>11</sup></b>	4

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 II
- (7) DIN 53505
- (8) ISO 604
- (9) ISO 178
- (10) ASTM D648
- (11) ISO 2812 (Wet Patch Method), scale 1-5 (5 is best)

Epoxy Curing Agents and Modifiers

# ANCAMINE® 2686 Curing Agent

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