

**ANCAMINE® 2800** Curing Agent**DESCRIPTION**

Ancamine 2800 is a modified polyamine intended for use as a curing agent for diluted liquid epoxy resin at ambient and low temperature application. Ancamine 2800 is free of nonyl phenol, facilitating in low volatile organic component coating and flooring formulations.

**BENEFITS**

- Moisture tolerant
- Fast cure
- Low temperature cure
- Excellent chemical resistance
- Nonyl phenol free
- Low VOC and Emissions

**APPLICATIONS**

- Moisture vapor barrier
- Protective coatings
- Industrial flooring applications

**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 on Ancamine 2800 curing agent.

**TABLE 1: TYPICAL PROPERTIES**

|  |                      |
|--|----------------------|
| <b>Appearance</b>                              | Clear, Yellow Liquid |
| <b>Color<sup>1</sup>(Gardner)</b>              | <5                   |
| <b>Viscosity<sup>2</sup> @ 25°C (cPs)</b>      | 250-650              |
| <b>Amine Value<sup>3</sup> (mg KOH/g)</b>      | 350-550              |
| <b>Specific Gravity @ 21°C</b>                 | 1.03                 |
| <b>Equivalent Wt/{H}</b>                       | 80-90                |
| <b>Recommended Use Level<sup>4</sup> (phr)</b> | 40-45                |

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

|   |        |
|---|--------|
| <b>Gel Time<sup>4,5</sup> (min, 150g mass, 25°C)</b>  | 35-45  |
| <b>Thin Film Set Time<sup>6</sup> (h, 23°C)</b>       | 6      |
| <b>Hardness Shore D @ 23°C (8h/24h)</b>               | 76/81  |
| <b>Compressive Strength<sup>7</sup> (psi)</b>         | 13,548 |
| <b>Compressive Modulus<sup>7</sup> (thousand psi)</b> | 327    |
| <b>Tensile Strength<sup>8</sup> (psi)</b>             | 10,024 |
| <b>Tensile Modulus<sup>8</sup> (thousand psi)</b>     | 525    |
| <b>Tensile Elongation<sup>8</sup> @ Break (%)</b>     | 2.6    |

Footnotes:

- (1) ASTM D1544-80
- (2) ASTM D 2196-05, Brookfield RVTD
- (3) Perchloric Acid Titration
- (4) Bisphenol A diglycidyl ether resin (EEW=190)/Epodi 748 and 749 (80:10:10)
- (5) Techne GT-3 Gelation Timer
- (6) BK Drying Recorder phase III
- (7) ASTM D 695-08
- (8) ASTM D 638-14

**ANCAMINE® 2800** Curing Agent**ANCAMINE 2800 START POINT FORMULATION CLEAR PRIMER OR TOPCOAT**

| A-COMPONENT     |                 |         | BY WT        |
|-----------------|-----------------|---------|--------------|
| 1. Epoxy resin  | Bisphenol A DGE | Various | 80.0         |
| 2. Diluent      | Epodil 748      | Evonik  | 10.0         |
| 3. Diluent      | Epodil 749      | Evonik  | 10.0         |
| 4. Air release* | Byk A530        | Atlanta | 0.3          |
| <b>Total</b>    |                 |         | <b>100.3</b> |

\*Other Air Release options - Airase 4800 (0.15%)

**A-COMPONENT MANUFACTURE PROCEDURE**

Charge components 1-3 and stir homogeneous at low shear

**B-COMPONENT**

|                 |               |        |              |
|-----------------|---------------|--------|--------------|
| 1. Curing agent | Ancamine 2800 | Evonik | 44           |
| <b>Total</b>    |               |        | <b>144.3</b> |

**DESCRIPTION**

After mixing part A and part B, the formulation is ready to apply

**TECHNICAL DATA**

|                          |          |       |                       |         |     |
|--------------------------|----------|-------|-----------------------|---------|-----|
| Mix Ratio A/B            | By wt    | 70:30 | Admix Viscosity       | Cps     | 594 |
|                          | By vol   | 2.16  |                       |         |     |
| Density Mixture          | Lbs/Gal  | 9.4   |                       |         |     |
| Adhesion to Wet Concrete | Psi      | 300   | Gel time, 150 g. mass | Min     | 41  |
| Shore D Hardness         | 4 hours  | 74    | TFST, Hours           | Stage 1 | 3   |
|                          | 8 hours  | 76    |                       | Stage 2 | 5   |
|                          | 16 hours | 78    |                       | Stage 3 | 6   |
|                          | 24 hours | 81    |                       | Stage 4 | 10  |

**EVONIK CORPORATION**

7201 Hamilton Blvd.  
 Allentown, PA 18195  
 1 800 345-3148  
 Outside U.S. and Canada 1 610 481-6799

**For Technical Information and Support:**

Americas: picus@evonik.com  
 EMEA: apcse@evonik.com

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