

ANCAMIDE® 2426 Curing Agent**DESCRIPTION**

Ancamide 2426 curing agent is a modified, low-viscosity, blush-resistant amidoamine curing agent for use in coatings, civil engineering and adhesive applications.

ADVANTAGES

- Free of benzyl alcohol and other plasticizers and solvents
- Excellent blush resistance
- Long pot life
- Low viscosity
- Excellent hardness development
- Good resistance to immersion in many aqueous solutions
- Compliant with FDA regulation 21 CFR 175.300 for coatings for containers having a capacity of 1000 gallons or more when such containers are intended for repeated use in contact with alcoholic beverages containing up to 8 percent alcohol by volume

APPLICATIONS

- Brewery tank linings
- High and 100% solids coatings
- Potable water applications

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.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamide 2426 curing agent.

TYPICAL CURE SCHEDULE

7 days at ambient temperature.

TABLE 1: TYPICAL PROPERTIES

Appearance	Light Brown Liquid
Color (Gardner)¹	8
Viscosity @ 77°F (cP)²	650
Specific Gravity @ 77°F³	0.952
Amine Value (mg KOH/g)⁴	380
Flash Point (°F)⁵	>400
Equivalent Wt/{H}	93
Recommended Use Level (phr, EEW=190)	49

TABLE 2: PERFORMANCE DATA

A 15 minute induction time is recommended for optimum film formation without amine exudate.

TABLE 3: TYPICAL HANDLING PROPERTIES*

Mixed Viscosity @ 77°F (cP)	3,400
Gel Time @ 77°F (150 g mix) (min)⁶	245
Thin Film Set Time @ 77°F (h)⁷	14
Peak Exotherm (°F) (150 g mix @ 77°F)⁸	95
Peak Exotherm Time (min)⁸	200

TABLE 4: TYPICAL PERFORMANCE*

Glass Transition Temp (°F)⁹	118
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* Ancamide 2426 curing agent formulated with standard Bisphenol-A based (DGEBA, EEW=190) epoxy resin.

Footnotes:

- (1) ASTM D 1544-80
- (2) ASTM D-445-83, Brookfield, RVTD, Spindle 4
- (3) ASTM D 1475-85
- (4) Perchloric Acid Titration
- (5) Seta Flash Closed Cup
- (6) Techne GT-4 Gelation Timer
- (7) BK Drying Recorder
- (8) ASTM D 2471-71
- (9) ASTM D 3418-82

SUPPLEMENTARY DATA

Plasticizer-Free: Ancamide 2426 curing agent contains no plasticizers or solvents, enabling the formulator the capability to formulate coatings and linings which have extremely low levels of extractables. Formulations can be developed at very high solids and 100% solids, with excellent pot life.

Blush Resistance: Ancamide 2426 curing agent offers significantly improved blush resistance compared with standard amidoamine curing agents. At ambient temperature, Ancamide 2426 curing agent-based films have only a slight haze with no induction time, and no haze with 15 minutes of induction time.

Hardness Development: Pendulum hardness with no induction time was measured for 3-mil DFT clear films based on Ancamide 2426 curing agent. Excellent hardness was achieved within the typical 7-day cure schedule, and the rate of hardness build accelerated within the first 3 days.

	1 day	3 days	7 days	14 days
Hardness	5	56	92	110

Corrosion Resistance: 4-mil thick clearcoat films on grit blasted steel panels and 5-mil clear films on cold rolled steel were tested for 1000 hours for humidity resistance per ASTM D-2247. The schedule utilized was 10 hours wet at 104°F followed by 2 hours dry at 113°F. There was no blistering or visible corrosion at the end of the test period on either substrate.

Chemical Resistance: Ancamide 2426 curing agent offers good chemical resistance to many aqueous solutions in immersion conditions. Results for liquid epoxy resin (EEW = 190) cured for 7 days at ambient temperature are shown below. Chemical resistance data is expressed as percent weight change. Testing was completed in accordance with ASTM D543-83.

IMMERSION TIME (DAYS)

Reagent	1	3	7	28	60
Deionized Water	0.4	0.6	0.8	1.7	2.4
10% Acetic Acid	4.9	7.9	11.2	18.8	22.9
Ethanol	6.3	9.3	12.9	25.0	25.0
Xylene	24.4	D	D	D	D
1,1,1, Trichloroethane	33.5	35.5	D	D	D
50% Sodium Hydroxide	0.0	0.0	0.1	0.2	0.3
70% Sulfuric Acid	0.3	0.6	1.0	3.6	5.7

Epoxy Curing Agents and Modifiers

ANCAMIDE® 2426 Curing Agent

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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