

ANCAMINE® 2712M Curing Agent**DESCRIPTION**

Ancamine 2712M curing agent is a modified polyamine curing agent intended for use as a curing agent for diluted liquid epoxy resin at ambient and low temperature application (10°C).

Ancamine 2712M curing agent is free of alkyl-substituted phenol and benzyl alcohol, facilitating zero volatile organic component coating and flooring formulations. Also, Ancamine 2712M curing agent allows the use in emission compliant coating and flooring systems.

ADVANTAGES

- Fast cure and development of properties at ambient and low temperature
- High resistance to carbamation and water spotting
- High mechanical and chemical resistances
- Free of alkyl-substituted phenol and benzyl alcohol

APPLICATIONS

- Emission compliant coatings and flooring systems
- Chemically resistant, high solid and solvent-free 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 for Ancamine 2712M curing agent.

TABLE 1: TYPICAL PROPERTIES

Appearance	Yellow liquid
Color (Gardner)¹	max 7
Viscosity @ 77°F (25°C) [mPa.s]²	350-650
Specific Gravity	1.0
Amine Value (mg KOH/g)³	500-560
Equivalent Wt/{H}	95
Recommended use Level, [PHR]⁴	50

TABLE 2: TYPICAL HANDLING PROPERTIES⁵

Use Level, [PHR]	50
Viscosity @ 74°F (23°C) [mPa.s]²	800-900
Gel Time, (150g mix at 77°F) (23°C) [min]⁶	30-35
Thin Film Set Time 23°C [h]⁷	7.0
Gloss 20°/60°, 23°C	105/102
PersoZ Pendulum Hardn. 23°C, d1/d7 [s]⁸	240/360
Hardness 23°C, 16h/d7 [Shore D]⁹	80D/85D
Carbamation Resist. 23°C, 24h [Scale 1-5]¹⁰	5
Thin Film Set Time 50°F (10°C), [h]⁷	14.0
Gloss 20°/60°, 10°C	105/102
PersoZ Pendulum Hardn. 10°C, d2/d7 [s]⁸	135/375
Hardness 10°C, 24h/d7 [Shore D]⁹	65D/85D
Carbamation Resist. 10°C, 2d [Scale 1-5]¹⁰	4

Footnotes:

- (1) ASTM D 1544-80
- (2) Brookfield DV+ Spindle 5
- (3) Perchloric Acid Titration
- (4) With Bisphenol-A diglycidyl ether (EEW=190)
- (5) With Bisphenol A/F diglycidyl ether blend, Epodil® 748 reactive diluent diluted, EEW195, η 900 mPa.s
- (6) Techne GT-3 Gelation Timer
- (7) ASTM D5895 BK Drying Recorder Phase III
- (8) ISO 1522
- (9) ISO 868
- (10) ISO 2812 (Wet Patch Method), scale 1-5 (5 is best)

Epoxy Curing Agents and Modifiers

ANCAMINE® 2712M Curing Agent

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