

ANCAMINE® 2072 Curing Agent**DESCRIPTION**

Ancamine 2072 is a cycloaliphatic polyamine mannich base curing agent for liquid epoxy resin. It is a phenol-free version of Ancamine MCA. Ancamine 2072 produces hard films. Special features of this product include high reactivity at low temperatures and under conditions of high humidity which makes it suitable for industrial and semi-decorative screed flooring and concrete repair applications.

Excellent chemical resistance against water, aqueous detergent solutions and alkalis; good against dilute mineral acids; poor against organic acids, hydrocarbon solvents, trichloroethane, ketones and glycol ethers.

ADVANTAGES

- High reactivity at low temperature and at high humidity
- Excellent chemical resistance

APPLICATIONS

- Coatings
- Industrial and semi-decorative screed flooring
- Concrete repair compounds

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 2072 curing agent.

TYPICAL PROPERTIES

Appearance	Amber liquid
Colour¹ (Gardner)	9
Viscosity² @ 25°C [mPa.s]	150-250
Amine Value³ [mg KOH/g]	345-375
Specific Gravity @ 21°C [g/ml]	1.01
Equivalent Wt/{H}	105
Recommended use Level⁴, [PHR]	55

TYPICAL HANDLING PROPERTIES

Mixed Viscosity² at 25°C, [mPa.s]	2,000
Gel Time⁵ (150g mix at 25°C), [mins]	25
Peak Exotherm (150g mix at 25°C), [°C]	112
Thin Film Set Time⁶ @ 25°C, [h]	4.5
Shore D⁷ 20°C (24 hours)	81
Typical cure schedule	2- 7 days

TYPICAL PERFORMANCE PROPERTIES

Tensile Strength⁸, [MPa]	40
Tensile Modulus⁸, [GPa]	3.5
Tensile Elongation at Break [%]	1.4
Flexural Strength⁹, [MPa]	78
Flexural Modulus⁹, [GPa]	2.1
Heat Distortion Temperature¹⁰, [°C]	58
Carbamation Test¹¹	3

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 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® 2072 Curing Agent

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