

ANCAMINE® 1482 Curing Agent**DESCRIPTION**

Ancamine 1482 is a liquid eutectic combination of aromatic polyamines designed for use in the elevated temperature cure of liquid epoxy resin. Relative to conventional solid aromatic amines Ancamine 1482 has the advantage of permitting mixing of epoxy resin and curing agent at lower temperatures and hence extending the working life. When fully cured with liquid epoxy resins Ancamine 1482 gives excellent mechanical properties and chemical resistance. These properties together with high heat resistance make this product suitable, using controlled handling procedures, for use in the preparation of filament wound tanks and pipe, casting and laminating applications.

ADVANTAGES

- Excellent chemical resistance
- High mechanical properties

APPLICATIONS

- Controlled heat cure applications
- Filament winding
- Casting

SHELF LIFE

At least 24 months from date of manufacture in original sealed container stored undercover at ambient temperature away from excessive heat and humidity. If crystallisation occurs, warming to 40-50°C will re-liquify.

STORAGE AND HANDLING

Ancamine 1482 contains DDM (4,4'-Diaminodiphenyl methane). The prime route for exposure to DDM based products is by skin contact and it is known that absorption into the body is rapid. It is therefore recommended that personal protection is worn at all times when handling Ancamine 1482. Good local exhaust ventilation is also essential to maintain low exposure level. Refer to the Safety Data Sheet for Ancamine 1482 curing agent.

TYPICAL PROPERTIES

Appearance	Dark brown liquid/ crystalline solid
Colour¹	>18
Viscosity² @ 25°C [mPa.s]	550-1,250
Amine Value³ [mg KOH/g]	750-790
Specific Gravity @ 25°C	1.16
Equivalent Wt/{H}	37
Recommended use Level⁴, [PHR]	19

TYPICAL HANDLING PROPERTIES

Gel Time⁵ (150g mix at 25°C), [mins]	220
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TYPICAL PERFORMANCE PROPERTIES

Tensile Strength⁶, [MPa]	68
Tensile Modulus⁶, [GPa]	2.9
Tensile Elongation [%]	4.2
Flexural Strength⁷, [MPa]	131
Flexural Modulus⁷, [GPa]	2.8
Heat Distortion Temperature⁸, [°C]	160

TYPICAL CURE SCHEDULE

2 h at 80°C plus 4 h at 150°C

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) ISO 527
- (7) ISO 178

Epoxy Curing Agents and Modifiers

ANCAMINE® 1482 Curing Agent

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