

ANCAMIDE® 400 Curing Agent**DESCRIPTION**

Ancamide 400 is a special polyamide curing agent for liquid epoxy resin. It has a similar performance to Ancamide 350A but with a much lower viscosity and higher amine value. This versatile curing agent cures relatively rapidly and has excellent compatibility with bis F and conventional epoxy resins, has a pale colour and good colour stability. When blended with cycloaliphatic polyamines good hot water resistance is attainable. Applications for Ancamide 400 include coatings, floorings, adhesives (with Goodrich ATBN modifiers) sealants, putties, grouts and electrical potting.

Good chemical resistance against water and most aqueous media except acids; moderate to poor against organic solvents.

ADVANTAGES

- Low viscosity polyamide
- Moderately fast cure
- No induction time needed

APPLICATIONS

- Coatings
- Adhesives
- Sealants and Putties
- Electrical potting compounds
- Grouts (especially water-wipeable)

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 Ancamide 400 curing agent.

TYPICAL PROPERTIES

Appearance	Amber liquid
Colour¹ (Gardner)	<13
Viscosity² @ 25 °C, [mPa.s]	1,200-2,000
Amine Value³, [mg KOH/g]	380-430
Specific Gravity @ 21°C, [g/ml]	0.98
Equivalent Wt/{H}	95
Recommended use Level⁴, [PHR]	50
Flash Point (closed cup), [°C]	>160

TYPICAL HANDLING PROPERTIES

Gel Time⁵ (150g mix at 25°C), [mins]	65-80
Peak Exotherm (150g mix at 25°C), [°C]	105
Time to Peak Exotherm, [min]	117
Thin Film Set Time⁶ 25°C, [h]	9

TYPICAL PERFORMANCE PROPERTIES

(i) 7 Days at Ambient Temperature
(ii) 2 H at 60°C plus 1 H at 100 0C

TYPICAL PERFORMANCE PROPERTIES

Following Cure Schedule (ii)	
Barcol Hardness (model GYZJ935)	69
Bond Strength (mild steel), [MPa]	12
Tensile Strength⁷, [MPa]	32
Tensile Modulus⁷, [GPa]	2.5
Flexural Strength⁸, [MPa]	53
Flexural Modulus⁸, [GPa]	1.77
Elongation Break, [%]	1.44
Heat Distortion Temperature⁹, [°C]	46

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) ISO 527
- (8) ISO 178
- (9) ASTM D648

Epoxy Curing Agents and Modifiers

ANCAMIDE® 400 Curing Agent

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