

ANCAMINE[®] 156

Curing Agent

DESCRIPTION

Ancamine 156 is a modified cycloaliphatic polyamine intended for use as room temperature curing agent for liquid epoxy resin. Its drying speed/pot life profile has been optimized for high ambient temperature applications where long working life is an issue. Besides that, degree of yellowing upon UV radiation is less pronounced than with many others cycloaliphatic curing agents.

TYPICAL PROPERTIES

Property	Value	Unit	Method
Appearance	Pale Amber Liquid		
Colour	max. 3	Gardner	ASTM D 1544-80
Viscosity @ 25°C	100-200	mPa.s	Brookfield RVT-D, Spindle 4
Amine Value	320-340	mg KOH/g	Perchloric Acid Titration
Specific Gravity @ 21°C	1.05	g/ml	
Equivalent	95	Wt/{H}	
Recommended use Level	50	PHR	With Bisphenol A diglycidyl ether (EEW=190)

ADVANTAGES

- Very low viscosity
- Good colour stability
- Excellent water-spot resistance

APPLICATIONS

- High solids and solvent free coatings
- Industrial flooring self-levelling and screed
- Self-levelling and screed floors

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 156 curing agent.

TYPICAL HANDLING PROPERTIES

Property	Value	Unit	Method
Mixed Viscosity @ 25°C	2100	mPas	Brookfield RVTD, Spindle 4
Gel Time (150g mix @ 25°C)	45	min	Techne GT-3 Gelation Timer
Thin Film Set Time @ 25°C	7	h	BK Drying Recorder Phase III
Shore D 20°C	51/79	8/24 h	DIN 53505
Shore D 10°C	38/71	16/24 h	DIN 53505
Typical cure schedule	2- 7 days		

TYPICAL PERFORMANCE PROPERTIES

Property	Value	Unit	Method
Compressive Strength	77	MPa	ISO 604 with Bisphenol A/F diglycidyl ether 10%, diluted with Epodil 748
Compressive Modulus	1.8	GPa	ISO 604 with Bisphenol A/F diglycidyl ether 10%, diluted with Epodil 748
Tensile Strength	58	MPa	ISO 527
Tensile Modulus	6.9	GPa	ISO 527
Tensile Elongation at Break	0.5	%	
Flexural Strength	90	MPa	ISO 178
Flexural Modulus	3.3	GPa	ISO 178
Heat Distortion Temperature	45	°C	ASTM D648
Carbamation Test	3		Scale 1-5 (5 is best)

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