

**ANCAMINE<sup>®</sup> 2143****Curing Agent****DESCRIPTION**

Ancamine 2143 curing agent is a modified cycloaliphatic amine adduct intended for use at ambient temperatures with liquid epoxy resins. The cycloaliphatic base amine in Ancamine 2143 is proprietary Evonik technology specifically designed to aid formulation of user-friendly solvent free coatings and self-levelling flooring.

**TYPICAL PROPERTIES**

Property	Value	Unit	Method
Appearance	Clear light yellow liquid		
Colour	<2	Gardner	ASTM D 1544-80
Viscosity @ 25°C	500-700	mPa.s	Brookfield RVTD, Spindle 4
Amine Value	250-260	mg KOH/g	Perchloric Acid Titration
Specific Gravity @ 25°C	1.04	g/ml	
Equivalent	115	Wt{H}	
Recommended use Level	60	PHR	With Bisphenol A diglycidyl ether (EEW=190)

**ADVANTAGES**

- Good through cure properties exhibited down to 10°C
- Improved chemical and abrasion resistance compared to standard cycloaliphatic amine curing agents
- Excellent resistance to amine blush and water-spotting
- Low initial colour and excellent long term colour stability
- Low viscosity
- High gloss coatings

**APPLICATIONS**

- Decorative and performance self-levelling and screed flooring
- Solvent free and high solids, high performance coatings
- Tile grouts
- Chemically resistant tank linings and grouts

## 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 2143 curing agent.

## TYPICAL HANDLING PROPERTIES<sup>1</sup>

Property	Value	Unit	Method
Mixed Viscosity @ 25°C	2,400	mPas	Brookfield RVTD, Spindle 4
Gel Time (150g mix @ 25°C)	45	mins	Techne GT-3 Gelation Timer
Peak Exotherm (150g mix at 25°C)	102	°C	ASTM D 2471-71
Time to peak exotherm	58	mins	ASTM D 2471-71
Thin Film Set Time 25°C	7.0	h	BK Drying Recorder Phase III
Shore D 20°C (24 h)	83		DIN 53505
Typical cure schedule	2- 7 days		

## TYPICAL PERFORMANCE PROPERTIES<sup>2</sup>

Property	Value	Unit	Method
Compressive Strength	72	MPa	ISO 604
Tensile Strength	52	MPa	ISO 527
Tensile Modulus	3.0	GPa	ISO 527
Tensile Elongation	2.8	%	ISO 527
Flexural Strength	77	MPa	ISO 178
Flexural Modulus	2.6	GPa	ISO 178
Heat Distortion Temperature	46	°C	ASTM D648
Abrasion Resistance (1000 cycles)	34	mg wgt loss	ASTM D 4060-90
Carbamation Test	5		Scale 1-5 (5 is best)

(1) With Bisphenol A diglycidyl ether (EEW=190)

(2) With Bisphenol A diglycidyl ether diluted with 10% Epodil 748

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