**Product information** 

# ANCAMINE® 2379

# **Curing Agent**

#### **DESCRIPTION**

Ancamine 2379 is a modified cycloaliphatic adduct designed for use with liquid epoxy resin at ambient temperatures.

#### **TYPICAL PROPERTIES**

Property	Value	Unit
Appearance	Almost colourless liquid	
Colour, max	2	Gardner
Viscosity @ 25°C	70-110	mPa.s
Amine Value	250-350	mg KOH/g
Specific Gravity @ 25°C	1.0	
Flash Point (closed cup)	166	°C
Equivalent	82-90	Wt/{H}
Recommended Use Level (EEW=190)	47	PHR

## **ADVANTAGES**

- Low viscosity
- Good chemical resistance
- · Excellent colour and colour stability

#### **APPLICATIONS**

Ancamine 2379 is suitable for use in solvent-free or high solids coatings. In addition, it is recommended for self-leveling and screed flooring applications where good chemical resistance is required.

#### **CHEMICAL RESISTANCE**

Excellent against distilled water, detergent solution, alkalia and weak mineral acids. Very good against strong mineral acid in which it is simply discoloured. Good against acetic acid and ethanol and moderate against toluene. It has poor resistance to ketones and glycol ethers.



## **SHELF LIFE**

At least 24 months from the date of manufacture in the original sealed container stored under cover at ambient temperature away from excessive heat and humidity.

## **PACKAGING AND HANDLING**

Refer to the Safety Data Sheet for Ancamine 2379 curing agent.

#### **TYPICAL HANDLING PROPERTIES**

Property	Value	Unit	
Mixed Viscosity @ 25°C	1,840	mPa.s	
Gel Time (150g mix @ 25°C)	31	min	
Thin Film Set Time @ 25°C	8	h	
Peak Exotherm (100g @ 25°C)	130	°C	
Time to Peak Exotherm	36	min	

## **TYPICAL CURE SCHEDULE**

2-5 Days @ 25°C

## **TYPICAL PERFORMANCE PROPERTIES**

Property	Value	Unit
Heat Distortion Temperature	48	°C
Shore D Hardness	75	
Flexural Strength	114	N/mm²
Flexural Modulus	8.48	KN/mm <sup>2</sup>
Tensile Strength	36	N/mm²
Tensile Modulus	5.74	KN/mm <sup>2</sup>
Tensile Elongation Break	0.72	%



# RATE OF CURE

		Beck Koller		
Temperature (°C)	Tack-free time (h)	Hard-dry time (h)		
10	11.5	17.5		
25	5.75	8.0		

# THROUGH CURE

		Koenig Hardness (secs) Cure Time			
Temperature (°C)	1 Day	2 Days	4 Days	5 Days	7 Days
10	21	105	123	127	137
25	143	210	203	217	=

Shore D Hardness	@ 10°C	Develops 95% of ultimate hardness after 4 days cure
Shore D Hardness	@ 25°C	Develops 95% of ultimate hardness after 1 day cure
MEK Double Wipe Resistance	@ 10°C	Develops resistenace to >250 double wipes after 4 days cure
MEK Double Wipe Resistance	@ 25°C	Develops resistenace to >250 double wipes after 2 days cure
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# **CHEMICAL RESISTANCE**

Immersion of cured disc for three weeks following 2 weeks at 25°C.

	% Weight Change	% Hardness Change	Degree of Attack
		(Shore D)	
Toluene	0.8	88.2	LR*
2-Ethoxy Ethanol	21.5	-	NR
2-Butanol (MEK)	Destroyed	-	NR
Industrial Ethanol	6.9	82.4	LR
Water	1.0	98.6	R
5% Teepol	1.0	90.8	R
10% Sodium Hydroxide	0.9	97.3	R
50% Sodium Hydroxide	-0.1	95.9	R
10% Sulphuric Acid	1.7	97.3	R
70% Sulphuric Acid	0.6	98.7	R* (Discoloured)
10% Hydrochloric Acid	1.1	98.6	R
20% Nitric Acid	2.2	98.6	R* (Discoloured)
10 Acetic Acid	5.0	83.6	LR

R	Unaffected (>90% of original hardnes)
R*	Slight surface attack
LR	Slight softening
LR*	Softening and attack such as discolouration
NR	Moderate to severe disintegration - No longer provides protective barrier



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