

**ANCAMINE® 2379** Curing Agent**DESCRIPTION**

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

**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 PROPERTIES**

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

**TYPICAL HANDLING PROPERTIES**

<b>Mixed Viscosity @ 25°C [mPa.s]</b>	1,840
<b>Gel Time (min) (150g mix @ 25°C)</b>	31
<b>Thin Film Set Time @ 25°C (h)</b>	8
<b>Peak Exotherm (100g @ 25°C) (°C)</b>	130
<b>Time to Peak Exotherm (min)</b>	36

**TYPICAL CURE SCHEDULE**

**2-5 Days @ 25°C**

**TYPICAL PERFORMANCE**

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

**RATE OF CURE**

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

**THROUGH CURE**

Temperature (°C)	Koenig Hardness (secs) Cure Time				
	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 resistance to >250 double wipes after 4 days cure
MEK Double Wipe Resistance	@ 25°C	Develops resistance to >250 double wipes after 2 days cure

**CHEMICAL RESISTANCE**

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

	% Weight Change	% Hardness Change (Shore D)	Degree of Attack
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

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

**EVONIK RESOURCE EFFICIENCY GMBH**

Business Line Crosslinkers  
Paul-Baumann-Straße 1  
45764 Marl  
Germany

[apcsep@evonik.com](mailto:apcsep@evonik.com)  
[www.evonik.com/crosslinkers](http://www.evonik.com/crosslinkers)

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

