

## Product information

# ANCAMINE<sup>®</sup> AD

## Curing Agent

### DESCRIPTION

Ancamine AD curing agent gives very rapid cure at ambient and low temperatures. A phenol-free version is also available as Ancamine 2205 curing agent.

### TYPICAL PROPERTIES

Property	Value	Unit	Method
Appearance	Amber liquid		
Colour	6	Gardner	
Viscosity @ 77°F	1,500	cP	
Amine Value	485	mg KOH/g	
Specific Gravity @ 77°F	1.08		
Density @ 77°F	9.0	lb/gal	
Flash Point	198	°F	closed cup
Equivalent Wt/{H}	107		
Recommended Use Level	60	phr	EEW=190

### ADVANTAGES

- Very fast cure
- Excellent bond to concrete, even under cold, damp conditions
- Good chemical resistance to certain solvents, including trichloroethane and xylene
- DOT noncorrosive

### APPLICATIONS

- Concrete repair materials
- Bonding new concrete to old concrete
- Fast-setting adhesives
- Accelerator for other amine-based curing agents
- Coal tar epoxy coatings

### SHELF LIFE

At least 24 months from the date of manufacture in the original sealed container at ambient temperature. Store away from excessive heat and humidity in tightly closed containers.

## STORAGE AND HANDLING

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

## TYPICAL CURE SCHEDULE

**2-7 days at ambient temperature**

## TYPICAL HANDLING PROPERTIES \*

Property	Value	Unit	Method
Gel Time (150g mix @ 77°F)	6	min	
Thin Film Set Time			
@ 77°F	1.0	h	
@ 40°F	3.0	h	

## TYPICAL PERFORMANCE \*

Property	Value	Unit	Method
(Cured 7 days @ 77°F)			
Heat Deflection Temperature	118	°F	ASTM D648-264 psi
Glass Transition Temperature	127	°F	
(Cured 3 days @ 68°F)			
Bond Strength (mild steel to mild steel)	1,900	psi	
60° Film Gloss	91		

\* Ancamine AD curing agent formulated with standard Bisphenol-A based (DGEBA, EEW=190) epoxy resin.

## SUPPLEMENTARY DATA

Property	Value	Unit	Method
Sample adhesive formulation based on liquid resin with 200 phr silica			
<b>Thin Film Set Time:</b>			
@ 77°F	110	min	
@ 41°F	4 - 5	h	
<b>Peak Exotherm</b>	262	°F	100g mix @ 77°F
<b>Peak Exotherm Time</b>	10	min	
Sample high-solids coal tar pitch/ epoxy coating formulation based on semi-solid resin with 200 phr tar plus 300 phr fillers			
<b>Dry Time @ 77°F:</b>			
<b>Dust</b>	2.5	h	
<b>Touch</b>	4	h	
<b>Hard</b>	24	h	
Sample unfilled coal tar pitch coating formulation based on liquid resin with 50% tar			
<b>Hard Dry Time</b>			
@ 77°F	5	h	
@ 41°F	24	h	

Ancamine® is a registered trademark of Evonik Industries AG or one of its subsidiaries.

### Disclaimer

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.

### EVONIK OPERATIONS GMBH

Business Line Crosslinkers  
Paul-Baumann-Str. 1  
45764 Marl  
Germany

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

**Product Information:** APCSE@evonik.com

**Sample Request:** APCSE@evonik.com

### EVONIK CORPORATION

Business Line Crosslinkers  
7001 Hamilton Boulevard  
Trexlerstown, PA 18087  
USA

CrosslinkersProinfo@evonik.com

Crosslinkers-Samples@evonik.com

### EVONIK SPECIALTY CHEMICALS (SHANGHAI) CO., LTD.

Business Line Crosslinkers  
55, Chungdong Road  
Xinzhuang Industry Park  
Shanghai, 201108  
China

CL-Asiainfo@evonik.com

CL-Asiainfo@evonik.com

