

# ANCAMINE® 1608 Curing Agent

## DESCRIPTION

Ancamine 1608 is a modified aliphatic polyamine adduct curing agent designed for use as an ambient temperature curing agent for epoxy resin. It provides outstanding resistance to solvents and alcohols when formulated into solvent free and high solids coatings with liquid epoxy resin/epoxy novolac combinations. In addition this light coloured rapid curing aliphatic amine adduct imparts good mechanical properties when used in adhesives, laminates and electrical applications.

## ADVANTAGES

- Excellent chemical resistance against trichloroethane, xylene, water, detergent solutions, inorganic acids, alkalis and denatured alcohols
- Good chemical resistance against alcohols and skydrol
- Good mechanical properties in adhesives, laminates and electrical applications
- Fast curing accelerator

## APPLICATIONS

- Solvent free and high solids coatings
- Adhesives, laminates and electrical applications

## 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 1608 curing agent.

## TYPICAL PROPERTIES

<b>Appearance</b>	Clear Straw Coloured Liquid
<b>Colour<sup>1</sup> (Gardner)</b>	9
<b>Viscosity<sup>2</sup> @ 25°C [mPa.s]</b>	3,000-5,000
<b>Amine Value<sup>3</sup> [mg KOH/g]</b>	775-825
<b>Specific Gravity @ 21°C [g/ml]</b>	1.07
<b>Equivalent Wt/{H}</b>	38
<b>Recommended use Level<sup>4</sup>, [PHR]</b>	20

## TYPICAL HANDLING PROPERTIES

<b>Gel Time<sup>5</sup> (150g mix at 25°C), [mins]</b>	14
<b>Peak Exotherm (150g mix at 25°C), [°C]</b>	152
<b>Time to Peak Exotherm [mins]</b>	42
<b>Thin Film Set Time<sup>6</sup> @ 25°C, [h]</b>	4
<b>Typical cure schedule</b>	2- 7 days

## TYPICAL PERFORMANCE PROPERTIES

<b>Tensile Strength<sup>7</sup>, [MPa]</b>	36
<b>Tensile Modulus<sup>7</sup>, [GPa]</b>	2.8
<b>Tensile Elongation at Break [%]</b>	1.4
<b>Flexural Strength<sup>8</sup>, [MPa]</b>	99
<b>Flexural Modulus<sup>8</sup>, [GPa]</b>	2.6
<b>Heat Distortion Temperature<sup>9</sup>, [°C]</b>	100

Footnotes:

- (1) ASTM D 1544-80
- (2) Brookfield RVTD, Spindle 4
- (3) Perchloric Acid Titration
- (4) With Bisphenol A diglycidyl ether (EEW=190)
- (5) Techne GT-3 Gelation Timer
- (6) BK Drying Recorder Phase III
- (7) ISO 527
- (8) ISO 178
- (9) ASTM D648

Epoxy Curing Agents and Modifiers

# ANCAMINE® 1608 Curing Agent

**EVONIK RESOURCE EFFICIENCY GMBH**

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

[apcsepx@evonik.com](mailto:apcsepx@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.

