

ANCAMINE® 1934 Curing Agent**DESCRIPTION**

Ancamine 1934 is a modified cycloaliphatic polyamine adduct intended for use with liquid epoxy resin. The excellent colour, good colour stability, long pot-life and excellent moisture tolerance make it particularly suitable for use in high ambient temperature solvent-free and high solids coatings, self levelling flooring and tile grouting applications. Ancamine 1934 may be accelerated with Ancamines 1768 or 2432.

Excellent chemical resistance against water, detergent solutions, alkalis and certain chlorinated hydrocarbons; moderate against inorganic acids, organic acids, hydrocarbons and methylated spirits: poor against ketones, glycol ethers and toluene.

ADVANTAGES

- Longer pot-life
- Low viscosity
- Typical cycloaliphatic cure properties

APPLICATIONS

- Self-leveling floors
- Solvent free-coatings
- Tile 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 1934 curing agent.

TYPICAL PROPERTIES

| | |
|--|-------------------|
| Appearance | Colourless liquid |
| Colour¹ (Gardner) | 3 |
| Viscosity² @ 25°C [mPa.s] | 140-360 |
| Amine Value³ [mg KOH/g] | 265-295 |
| Specific Gravity @ 21°C, [g/ml] | 1.02 |
| Equivalent Wt/{H} | 100 |
| Recommended use Level⁴ [PHR] | 50 |

TYPICAL HANDLING PROPERTIES

| | |
|--|----|
| Mix Viscosity @25°C [mPa.s] | 20 |
| Gel Time⁵ (150g mix at 25°C), [mins] | 80 |
| Peak Exotherm (150g mix at 25°C), [°C] | 40 |
| Thin Film Set Time⁶ 25°C, [h] | 14 |
| Typical cure schedule 2- 7 days | |

TYPICAL PERFORMANCE PROPERTIES

| | |
|--|-----|
| Tensile Strength⁷, [MPa] | 52 |
| Tensile Modulus⁷, [GPa] | 2.0 |
| Tensile Elongation at Break [%] | 3.7 |
| Flexural Strength⁸, [MPa] | 94 |
| Flexural Modulus⁸, [GPa] | 1.9 |
| Heat Distortion Temperature⁹, [°C] | 40 |

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® 1934 Curing Agent

EVONIK RESOURCE EFFICIENCY GMBH
Business Line Crosslinkers
Paul-Baumann-Straße 1
45764 Marl
Germany

apcsepx@evonik.com
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.

