

# ANCAMINE® 1884 Curing Agent

## DESCRIPTION

Ancamine 1884 is a modified cycloaliphatic polyamine adduct designed for use with liquid epoxy resin. Ancamine 1884 is a longer pot-life variant of Ancamine 1693. The light colour, good colour stability, long pot-life and excellent moisture tolerance of Ancamine 1884 make it particularly suitable for use in high ambient temperature solvent-free concrete coatings, flooring and grouting applications and under conditions of high humidity. Bonds well to damp concrete.

Excellent chemical resistance against water, alkalis, detergents and dilute inorganic acids; moderate against denatured alcohol, hydrocarbons and organic acids; poor against ketones and glycol ethers.

## ADVANTAGES

- Low blush under conditions of high humidity
- Long pot life
- Classified as non-corrosive
- Bonds to damp concrete

## APPLICATIONS

- Solvent-free and high solids coatings
- Grouts
- Exterior patching mortars

## 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 1884 curing agent.

## TYPICAL PROPERTIES

Appearance	Clear light yellow liquid
Colour <sup>1</sup> (Gardner)	<3
Viscosity <sup>2</sup> @ 25°C [mPa.s]	300-350
Amine Value <sup>3</sup> [mg KOH/g]	355-375
Specific Gravity @ 21°C [g/ml]	1.05
Equivalent Wt/{H}	86
Recommended use Level <sup>4</sup> , [PHR]	45

## TYPICAL HANDLING PROPERTIES

Mixed Viscosity <sup>2</sup> at 25°C, [mPa.s]	2,100
Gel Time <sup>5</sup> (150g mix at 25°C), [mins]	80
Thin Film Set Time <sup>6</sup> @ 25°C, [h]	9.0
Typical cure schedule	2- 7 days

## TYPICAL PERFORMANCE PROPERTIES

Compressive Strength <sup>8</sup> , [MPa]	92
Tensile Strength <sup>9</sup> , [MPa]	53
Tensile Modulus <sup>9</sup> , [GPa]	3.5
Elongation at Break <sup>9</sup> , [%]	2.5
Flexural Strength <sup>10</sup> , [MPa]	90
Flexural Modulus <sup>10</sup> , [GPa]	2.3
Heat Distortion Temperature <sup>11</sup> , [°C]	42
Bond Strength (mild steel), [MPa] <sup>12</sup>	14
Carbamation Test <sup>13</sup>	4

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) DIN 53505
- (8) ISO 604
- (9) ISO 527
- (10) ISO 178
- (11) ASTM D 648
- (12) ASTM D 4541
- (13) Scale 1-5 (5 is best)

Epoxy Curing Agents and Modifiers

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