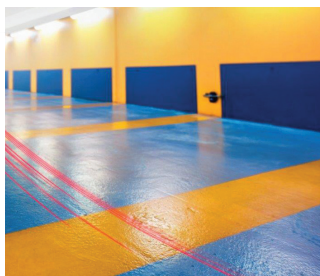


AMINE CURING AGENTS FOR EPOXY RESINS AND ISOCYANATES

Building and Construction



Technology	Curing Agent	Low (Neat) Viscosity	Gardner Colour max 5	Long Pot-life	Carbamation Resistance	Fast Cure / Early Walk-on	Aesthetics ²	Adhesion to Concrete	Mechanical Resistance	Flexibility	Chemical Resistance	Low Emissions	Water Vapour Permeability	Cement Compatibility	Effective Cost-in-use	Concrete Floor Primer	Concrete Pigmented Coating	Transparent Sealer/Topcoat	Self-Leveling Floor (SLF)	Secondary Containment / Park Deck Floor	Electrostatic Discharge (ESD) Floor	Screeds and Mortars	Concrete Reinforcement	Chemical / Bold Anchors	Concrete Adhesives and Bonding Agents
Waterborne Epoxy	Anquawhite™ 100	++		++	++		++				++	+					++	++							
	Anquamine® 287	++			++	+		++	++		+	++		++		++						++	++		++
	Epilink® 701			++	++	+			+			+	++				++		++	++	++	++			
	Anquamine® 721		++	++	++		++	+				++		+	++	++	++	++							
	Anquamine® 728		++	+	++	++	++	++	++			+	++		++	++	++	++							
	Anquamine® 735		++		++	+			+			++	++	++	++	++	++		++	++			++	++	
Solvent-free Epoxy	Ancamine® 1618		++	++			++										++	++	++	++					
	Ancamine® 2280			++	++				+		++						++		++	++					
	Ancamine® 2432	+	++			++			++		++						++		++	++			++	++	
	Ancamine® 2686				+	+		++							++	++						++			
	Ancamine® 2692	+	++		+	+		++	+						++	++	++					++			
	Ancamine® 2712M				++	++		++	++			++				++						++		++	++
	Ancamine® 2719					++		++	++		+					++						++		++	++
	Ancamine® 2739		++	++	++		++		++			++					++		++						
	Ancamine® 2759	+	++		++	++					+						++		++						
	Ancamide® 2769	++		++					++	+		++				++									++
	Ancamine® 2802		++	++			++		+			++					++								
	Ancamide® 3200			++				++		+						++									++
	Ancamine® 3215	++	++			+	++										++	++	++						
	Ancamide® 3444					+		++								++									++
	Ancamine® 3456									++		+					++		++	++				++	++
	Poly-carbamide ¹	Amicure® IC-221 ¹	+	++	+	++	++	++			+		+					++	++						
Amicure® IC-321 ¹		+	++		++	++	++			++		+					++	++							

++ Recommended
+ Alternative Use

Notes: All products listed are free from phenol, alkyl phenols, tert-butyl phenol, Bisphenol-A. Other products are available on requests.
(1) Amine curing agent for isocyanate resin. (2) Aesthetics is defined as a combination of UV resistance, pigment compatibility and gloss.

Product comparisons are made within same the technology group.

Technology	Curing Agent	Colour Max ¹ (Gardner)	Viscosity ² (mPa.s)	AHEW ³	Use level ⁴ (PHR)	Gel time ⁵ (min)
Waterborne Epoxy	Anquawhite™ 100	Dispersion	150-300	350	180	360-480 ⁸
	Anquamine® 287	12	400-1,000	240	125	45-75 ⁸
	Epilink® 701	Emulsion	5,000-10,000	300	145	120-240 ⁸
	Anquamine® 721	5	25,000-45,000	300	140-180	60-120 ⁸
	Anquamine® 728	5	5,000-15,000	250	34 ⁹ / 125	45-120 ⁸
	Anquamine® 735	5	12,000-16,000	200	100-120	30-60 ⁸
Solvent-free Epoxy	Ancamine® 1618	2	300-600	115	60	50
	Ancamine® 2280	13	350-700	110	58	50
	Ancamine® 2432	4	200-400	88	46	27
	Ancamine® 2686	12	100-400	95	50	35
	Ancamine® 2692	4	100-400	95	50	35
	Ancamine® 2712M	7	350-650	95	50	30-35 ⁷
	Ancamine® 2719	14	300-500	75	40	20
	Ancamine® 2739	3	350-650	95	45-50	80 ⁷
	Ancamine® 2759	2	250-400	95	50	20-25
	Ancamide® 2769	10	100-160	150	65-80	120
	Ancamine® 2802	3	450-650	87	45-50	35-40
	Ancamide® 3200	10	1,000-2,000	115	60	75-80
	Ancamine® 3215	3	15-45	95	50	15-20
	Ancamide® 3444	10	500-1,500	115	60	35-40
Ancamine® 3456	6	500 -1,500	250	125-135	35	
Poly-carbamide ¹	Amicure® IC-221 ¹	2	100-800	376	185 ⁶	20-25 ¹⁰
	Amicure® IC-321 ¹	2	100-800	379	185 ⁶	40-50 ¹⁰

Viscosity:

Brookfield RVTD,
Spindle 4

Use level:

As sole curing agent;
With BADGE (EEW=190)

Gel time:

Techne GT-3 gel timer,
150g mix at 25°C
(unless indicated otherwise)

Footnotes:

- (1) ASTM D1544
- (2) Brookfield viscosity, ASTM D445
- (3) AHEW = Amine Hydrogen Equivalent Weight
- (4) Recommended use level with Diglycidyl Ether of Bisphenol-A epoxy resin, EEW=182-192
- (5) Gelation timer, 150 or 250 g mass at 25 °C
- (6) With HDI Trimer isocyanate resin, 22 wt% NCO content; 2,500 mPa.s at 25 °C
- (7) With Bisphenol A/F diglycidyl ether, Epodil® 748 Reactive Diluent diluted, EEW190-200
- (8) Potlife measured by viscosity/gloss over time
- (9) Recommended use level with Ancarez AR-555 solid epoxy resin dispersion, EEW550 as supplied.
- (10) Time to viscosity build of 12 Pa.s at 25 °C

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