

GPK

Georgia-Pacific Kemrock International Private Ltd.

Epoxy Hardeners



PRODUCT CATALOGUE

EPOXY HARDENERS

Grade No.	Description	Viscosity (cP @ 25°C)	Color Gardner (Max)	Density @25°C (g/ml)	Amine Value, mgKOH/gm	Equivalent Weight ¹	Recommended (PHR ²)	Gel Time @25°C (Minutes)	Application
KEH 1000	Aliphatic Amine	4 to 15	1	0.93 to 0.97	1550 to 1650	21	Epo-Kem 1000 :100 parts KEH 1000 :11 parts	15 to 30	General purpose Epoxy hardener
KEH 1050	Aliphatic Amine	15 to 30	1	0.96 to 1.0	1400 to 1500	24	Epo-Kem 1000 :100 parts KEH 1050 :13 parts	20 to 35	General purpose Epoxy hardener
KEH 1100	Cycloaliphatic Amine	12 to 25	1	0.96 to 1.0	1250 to 1350	43	Epo-Kem 1000 :100 parts KEH 1100 :23 parts	10 to 25	Fast curing and high exotherm, General purpose epoxy hardener
KEH 1100M	Cycloaliphatic Amine	10 to 25	1	0.96 to 1.0	1320 to 1440	32	Epo-Kem1000FR:100parts KEH 1100M :15 parts	20 to 30	Composites by Hand lay up,
KEH 1150*	Mixture of Amines	10 to 25	2	0.92 to 0.96	475 to 510	59.8	Epo-Kem 1150 :100 parts KEH 1150 :34 parts	20 to 40 ³	Windmill blade, cryogenic, epoxy composites
KEH 1200*	Mixture of Amines	15 to 40	2	0.95 to 1.0	500 to 540	59.7	Epo-Kem 1150 :100 parts KEH 1200 :34 parts	8 to 18 ³	Windmill blade, cryogenic, epoxy composites
KEH 1250	Cycloaliphatic Amine	10 to 30	1	0.91 to 0.95	640 to 700	42.6	Epo-Kem 1100 :100 parts KEH 1250 :24 parts	50 to 80	Filament Winding
KEH 1300	Mixture of Amines	30 to 80	1	0.93 to 0.97	500 to 600	56	Epo-Kem 1250 :100 parts KEH 1300 :32 parts	90 to 120	Infusion Tooling
KEH 1400	Aromatic amine adduct	700 to 900	12	1.11 to 1.15	260 to 280	114	Epo-Kem 1000 :100 parts KEH 1400 :60 parts	110 to 140	Chemical resistant solvent free coatings and floor top coats.
KEH 1500	Cycloaliphatic Amine Adduct	200 to 400	2	1.12 to 1.16	260 to 320	95	Epo-Kem 1080 :100 parts KEH 1500 :50 parts	45 to 75	Self Level Floorings
KEH 1518	Cycloaliphatic Amine Adduct	300 to 600	1	1.02 to 1.06	250 to 300	113	Epo-Kem 1080 :100 parts KEH 1518 :60 parts	40 to 60	Self Level Floorings
KEH 1535	Cycloaliphatic Amine Adduct	10 to 40	2	0.96 to 1.00	300 to 350	80	Epo-Kem 1000 :100 parts KEH 1535 :42 parts	30 to 50	Self Level Floorings
KEH 1550	Cycloaliphatic Amine Adduct	50 to 150	2	0.98 to 1.02	340 to 390	84	Epo-Kem 1080 :100 parts KEH 1550 :45 parts	25 to 50	Self Level Floorings
KEH 1740	Phenalkaimne	2000 to 4000	18	0.96 to 1.0	490 to 550	75	Epo-Kem 1000 :100 parts KEH 1740 :40 parts	30 to 50	Fast Cure, low temperature, suitable for Civil Engineering and coatings
KEH 1741	Phenalkaimne	20000 to 40000	18	0.96 to 1.0	290 to 325	130	Epo-Kem 1000 :100 parts KEH 1741 :70 parts	50 to 70	Solvent free coatings, fast cure
KEH 1742	Phenalkaimne	5000 to 10000	18	0.96 to 1.0	390 to 430	100	Epo-Kem 1000 :100 parts KEH 1742 :50 parts	30 to 50	Solvent free coatings, Fast cure at low temp. and even at high humidity

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KEH 1837	Aliphatic polyamine adduct	3000 to 4000	2	0.96 to 1.02	375 to 425	66	Epo-Kem 1000 :100 parts KEH 1837 :35 parts	15 to 25	Solvent free anti corrosive coating
KEH 2000	Polyamide	10000 to 16,000	8	0.94 to 1.0	350 to 400	85	Epo-Kem 1000 :100parts KEH 2000 :45parts	50 to 70	Adhesives, Flooring, coating, ship building etc.,
KEH 2015	Polyamide	30,000 to 65,000 @40°C	12	0.94 to 1.02	210 to 250	240	Epo-Kem 1000 :100 parts KEH 2015 :100 parts	4 to 6 hours	Adhesives, protective coatings and Ship building
KEH 2025	Polyamide	30,000 to 60,000	12	0.94 to 1.02	280 - 320	~130	Epo-Kem 1000 :100 parts KEH 2025 :65 parts	100 to 150	Adhesives, protective coatings and Ship building
KEH 2048	Polyamide adduct	2500 to 5500	10	0.98 to 1.04	200 to 230	135 to 180	Epo-Kem 1000 :100 parts KEH 2048 :70 parts	2 to 3 hours	Solvent free anti corrosive coatings
KEH 2050	Polyamide	60000 to 90000 @30°C	-	1.1 to 1.3	375 to 450	96	Epo-Kem 1350 :100 parts KEH 2050 :45 to 50 parts	40 to 80 @30°C	GRP to GRP, GRP to Aluminum and GRP to MS bonding
KEH 2060	Polyamide	400 to 1000	12	0.93 to 0.97	350 to 410	95	Epo-Kem 1000 :100 parts KEH 2060 :50 parts	2 to 4 hours	Flooring, coating, ship building adhesives etc.,
KEH 3000	Anhydride	30 to 60	1	1.15 to 1.25	-	166.17	Epo-Kem 1000E :100parts KEH 3000 :90 parts	-	Pultrusion and filament winding
KEH 3050	Anhydride	50 to 70	1	1.11 to 1.21	-	168.19	Epo-Kem 1000E :100parts KEH 3050 :90 parts	-	Pultrusion and filament winding
KEH 3800	Polymercaptan	13000 to 17000	3	1.12 to 1.18	-	-	Epo-Kem 1000 :100 parts KEH 3800 :100 parts	4 to 10	Rapid cure, Industrial adhesives, Road Marker etc.,
KEH 4000	Aromatic Amine	Solid MP 90 to 95°C	-	1.13 to 1.17	-	49.57	Epo-Kem 1000E :100parts KEH 4000 :27 parts	-	Pultrusion and filament winding
KEH 4100	Aromatic Amine	Solid MP 62 to 65°C	-	1.37 to 1.40	-	27.02	Epo-Kem 1000 :100 parts KEH 4100 :14.6 parts	-	Chemical resistance and High Tg
KEH D-230	Polyether amine	6 to 15	APHA 30	0.92 to 0.96	450 to 500	60	Epo-Kem 1000 :100 parts KEH D-230 :32 parts	4 to 6 hours	Casting, Crack filling and Wind mill blade

¹ Amount in grams required to react with one equivalent of epoxide

² Parts by weight of curing agent per 100gms of epoxy (EEW 185)

³ Hot plate Gel time @ 90°C

* KEH 1150 & KEH 1200 are Germanischer Lloyd approved

