Q-RIT Solventfree and solventborne epoxy hardeners

Hardeners	Solids (% m/m)	Viscosity @25°C (mPa.s)	HEW (g/Eq)	Gel time (minutes) (a)	Uses and comments
Accelerators					
Q-RIT 054	100	100-300	-	-	2,4,6-tris(dimethylaminomethyl)phenol. Accelerator for epoxy/polyamine and epoxy/polyamide systems. phr 5-15
Amines and modified amines					
Q-RIT 118	100	5-20	32	-	Long gel time at ambient cure and high Tg if heat-cured. For construction, paints, adhesives and composites applications. phr 17 (liquid resin, EEW 190)
Q-RIT 120	100	5-20	43	130-190	Isophoronediamine (IPDA). Good heat resistance. Applications in construction, paints, composites and castings. phr 23 (liquid resin, EEW 190)
Q-RIT 122	100	5-10	34	-	M-xylenediamine (MXDA). Applications in construction, paints and composites. phr 18 (liquid resins, EEW 190)
Q-RIT 124	100	10-20	43	10-25	N-aminoethylpiperazine (N-AEP). Applications in construction, paints, adhesives and composites. phr 23 (liquid resin, EEW 190)
Q-RIT 125	100	5-10	21	25	Diethylenetriamine (DETA). Applications in construction, paints, adhesives and composites. phr 11 (iquid resin, EEW 190)
Q-RIT 126	100	20-30	24	25	Triethylenetetramine (TETA). Applications in construction, paints, adhesives and composites. phr 13 (liquid resin, EEW 190)
Q-RIT 128	100	20-60	27	26	Tetraethylenepentamine (TEPA). Provides high Tg. Applications in construction, paints, adhesives and composites. phr 14 (liquid resin, EEW 190)
Q-RIT 130	100	5-15	60	> 8h	Low molecular weight polyetheramine. Long pot-life, flexibility. Good impregnation. High filler loadings. For solventfree paints, floorings, mortars or adhesives. phr 32 (liquid resin, EEW 190)
Q-RIT 131	100	15-30	111	> 8h	Polyetheramine, Mw 400. Long pot-life, flexibility, good impregnation. High filler loadings. For solventfree paints, floorings, mortars or adhesives. phr 58 (liquid resin, EEW 190)
Q-RIT 132	100	50-150	82	-	Polyoxypropylenetriamine. Long pot-life. Provides flexibility and thoughness. phr 43 (liquid resin, EEW 190)

Q-RIT 154	100	20-80	90	15-20	Modified cycloaliphatic polyamine. Low viscosity, good impregnation, high filler loadings. Fast curing. phr 47-50 (liquid resin, EEW 190)
Q-RIT 155	100	150-450	95	30	Modified cycloaliphatic polyamine. Economical hardener. Benzyl alcohol-free. For adhesives, mortars and primers. phr 50 (liquid resin, EEW 190)
Q-RIT 163	100	18-48	40	-	For use in composite materials (fiber reinforced laminates) or adhesives. phr 21 (liquid resin, EEW 190)
Q-RIT 164	100	35-65	39	-	Faster than Q-RIT 163. For use in composite materials (fiber reinforced laminates) or adhesives. phr 20.5 (liquid resin, EEW 190)
Q-RIT 168	100	5-20	38	140-200	Provides hardness, high Tg, excellent heat resistance. For use in construction, tank linings and composites materials. phr 20 (liquid resin, EEW 190)
Q-RIT 180	100	900-1500	34	-	High crosslinking rate, good chemical resistance, fast drying. For use in adhesives, putties, mortars and impregnation compounds. phr 18 (liquid resin, EEW 190)
Amine and cycloaliphatic amine adducts					
Q-RIT 304	100	250-500	115	40	UV-resistance. Good mechanical and chemical resistance. For solvenfree self-leveling and trowelable floorings, paints or adhesives. phr 60 (liquid resin, EEW 190)
Q-RIT 305	100	400-700	105	30-35	UV-resistance. Good mechanical and chemical resistance. For solvenfree self-leveling and trowelable floorings, paints or adhesives. phr 55 (liquid resin, EEW 190)
Q-RIT 306	100	550-850	115	25	UV-resistance. Good mechanical, acid and solvent resistance. Faster than Q-RIT 305. phr 60 (liquid resin, EEW 190)
Q-RIT 315	100	250-550	115	30	Salicylic acid-free. UV-resistance. Good mechanical, acid and solvent resistance. phr 60 (liquid resin, EEW 190)
Q-RIT 317	100	150-450	93	40	Salicylic acid-free. Superior resistance to carbamation / waterspotting. Good colour stability, good chemical resistance. For solvenfree self-leveling floorings, and paints. phr 50 (liquid resin, EEW 190)
Q-RIT 318	100	150-450	93	30	Salicylic acid-free. Superior resistance to carbamation / waterspotting. Good colour stability, good chemical resistance. For solvenfree self-leveling floorings, and paints. phr 50 (liquid resin, EEW 190)
Q-RIT 357	100	150-450	93	30-35	Superior resistance to carbamation / waterspotting. Good colour stability, good chemical resistance. For solvenfree self-leveling and trowelable floorings, and paints. phr 50 (liquid resin, EEW 190)

Q-RIT 358	100	350-550	93	20-25	Superior resistance to carbamation / waterspotting. Good colour stability, good chemical resistance. For solvenfree self-leveling and trowelable floorings, and paints. phr 50 (liquid resin, EEW 190)
Q-RIT 369	100	300-550	90	19	UV resistance. Good resistance to carbamation / waterspotting and to chemicals. For floorings, fibre reinforced composites and decorative table tops. phr 50 (liquid resin, EEW 190)
Q-RIT 369LE	100	Typically 600	90	45	UV resistance. Low exotherm/low reactivity version of Q-RIT 369 for use in thick castings, river tables, decorative applications. phr 50 (liquid resin, EEW 190)
Q-RIT 380	100	1400-2400	75	8-10	High reactivity, low temperature cure. Superior chemical resistance. Accelerator for other hardeners. Alternative to Mannich bases. For solvenfree floorings. phr 40 (liquid resin, EEW 190)
Q-RIT 381	100	3000-6000	84	15-16	Salicylic acid-free, benzyl alcohol-free. O VOC. Superior chemical resistance. Alternative to Mannich bases. phr 45 (liquid resin, EEW 190)
RD-0190	100	Typically 800	93	30	Benzyl alcohol-free. O VOC. Excellent waterspot resistance. For use in floorings and other contruction applications. phr 50 (liquid resin, EEW 190)
Amidoamines					
Q-RIT 431	100	400-800	75	55	For solventfree paints, self-leveling and trowelable floorings, mortars, patching compounds and adhesives. Can be used on green concrete. phr 40 (liquid resin, EEW 190)
Q-RIT 436	100	500-1200	90	70-80	For solventfree self-leveling and trowelable floorings, mortars, patching compounds, adhesives and encapsulation systems. Can be used on green concrete. phr 47-50 (liquid resin, EEW 190)
Q-RIT 439	100	150-450	95	150	Low viscosity/long potlife curing agent for solventfree concrete primers, repair mortars, crack injection, castings, adhesives and tiles joints. Can be used on green concrete. phr 50 (liquid resin, EEW 190)
Polyamides					
Q-RIT 515X70	70	800-1500	340	Several hours	Very good resistance to corrosion and chemicals. For solventborne anticorrosion paints. Excellent flexibility and adhesion. Use with solid epoxy resin (solution).
Q-RIT 525	100	10000-14000	130	90	Good flexibility and adhesion, good resistance to corrosion and to chemicals. For adhesives and solventborne or solventfree anticorrosion paints. Use with liquid or solid epoxy resins (solution).
Q-RIT 541	100	1000-3000 (b)	95	140	Good flexibility and adhesion, good substrate wetting, good temperature resistance. For adhesives, solventborne anticorrosion paints and concrete repair. phr 50 (liquid resin, EEW 190)

Polyamide adducts					
Q-RIT 622XB70	70	4000-10000	350	Several hours	Outstanding flexibility, resistance to humidity and corrosion. Cures at up to 70% relative humidity. For solventborne anticorrosion paints. Use with solid epoxy resin (solution).
Q-RIT 623XB60	60	800-2400	520	Several hours	Outstanding flexibility, resistance to humidity and corrosion. Cures at up to 80% relative humidity. For solventborne anticorrosion paints. Use with solid epoxy resin (solution).
Q-RIT 635XB80	80	2000-8000	190	Several hours	General purpose high-solids curing agent for heavy duty coatings. Low temperature/high humidity cure. Use with high-solids or solid resin (phr 40, resin EEW 450-500).
Q-RIT 651	100	500-1500	115	40-45	Good substrate impregnation, outstanding adhesion to humid substrates and very good corrosion protection. For solventfree concrete primers, coatings and adhesives. phr 60 (liquid resin, EEW 190)
Q-RIT 653	100	250-500	115	30-40	Good substrate impregnation, outstanding adhesion to concrete and to humid substrates. Very good corrosion protection. For solventfree concrete coatings, concrete repair and high-solids primers. phr 60 (liquid resin, EEW 190)
Q-RIT 655	90	2000-6000	190	Up to 2 hours	Excellent flexibility, good humidity and corrosion resistance. Adhesion on humid concrete. Underwater cure. For high-solids anticorrosion coatings and adhesives. phr 100 (liquid resin, EEW 190)
Q-RIT 657	100	1500 - 4000	125	80-90	Low viscous. Outstanding adhesion to concrete. For high-solids or solventfree anticorrosion coatings, sealers and coatings for condrete. phr 60-80 (liquid resin, EEW 190)
Q-RIT 661	100	800 - 2000	130	30-35	Very fast and low viscous. For high-solids primers, industrial or maintenance paints, concrete sealers, adhesives and putties. phr 60-80 (liquid resin, EEW 190)

(a) with a liquid resin (EEW 190), 100 g mix, measured @23°C (b) measured @ 40°C