

## **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 mo	odified 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)
Amine and cyclo	aliphatic amin	e 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	200-500	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	100-350	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	1000-4000	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 adduc	ts				

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)