

## Epoxy Hardeners Portfolio

Hardeners	Solids, % m/m	Viscosity @ 25 °C, mPa.s	Equivalent weight, g/Eq	Gel time <sup>a</sup> (100 g@23 °C), minutes	Uses and comments
<b>Accelerators</b>					
Q-RIT 054	100	100 - 300	-	-	2,4,6-tris(dimethylaminomethyl)phenol. Accelerator for epoxy resin/amine systems. Gardner colour: 8 max. Use with epoxy resin (phr 5 - 15).
<b>Amines and modified amines</b>					
Q-RIT 120	100	5 - 20	43	130 - 190	For solventfree ambient and heat cure applications. Low viscosity. High reactivity. Also as accelerator for e.g. amidoamines. Use with liquid epoxy resin (phr 23, resin EEW 190).
Q-RIT 130	100	5 - 15	60	> 8 h	For solventfree coatings, floorings, mortars, cements, adhesives. Long pot-life. Low viscosity allowing good impregnation, high fillers loadings. Flexible systems. Use with liquid epoxy resin (phr 32, resin EEW 190).
Q-RIT 154	100	20 - 80	90	15 - 20	Modified cycloaliphatic polyamine. Universal use. Low viscosity, good impregnation, high filler loadings. Fast cure. Use with liquid epoxy resin (phr 50, resin EEW 190).
Q-RIT 155	100	150 - 450	95	30	Modified cycloaliphatic amine for adhesives and mortars. Cost-effective curing agent. Use with liquid epoxy resin (phr 50, resin EEW 190).
Q-RIT 180	100	900 - 1500	35	-	For solventfree adhesives, putties, mortars, impregnation compounds. Very high reactivity. High temperature resistance. Use with liquid epoxy resin (phr 18, resin EEW 190).
<b>Amine and cycloaliphatic amine adducts</b>					
Q-RIT 304	100	250 - 500	115	40	For solventfree (self-leveling) floorings, coatings, adhesives. Resistance to light. Good chemical and mechanical resistance. Use with liquid epoxy (phr 60, resin EEW 190).
Q-RIT 305	100	400 - 700	105	30 - 35	For solventfree (self-leveling) floorings, coatings, adhesives. Resistance to light. Good chemical and mechanical resistance. Use with liquid epoxy (phr 55, resin EEW 190).
Q-RIT 306	100	550 - 850	115	25	Faster than Q-RIT 305. Resistance to light. Good mechanical, acids and solvents resistance. Use with liquid epoxy resin (phr 60, resin EEW 190).
Q-RIT 357	100	150 - 450	93	30 - 35	For solventfree (self-leveling) floorings, coatings. Superior carbamation/waterspot resistance. Good colour retention. Good chemical resistance. Use with liquid epoxy resin (phr 50, resin EEW 190).

a with liquid resin, EEW 190

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Q-RIT 358	100	350 - 550	93	20 - 25	For solventfree (self-leveling) floorings, coatings. Superior carbamation/waterspot resistance. Good colour retention. Good chemical resistance. Use with liquid epoxy resin (phr 50, resin EEW 190).
Q-RIT 380	100	1400 - 2400	75	8 - 10	For solventfree floorings. Very high reactivity. Low temperature cure. High chemical resistance. Accelerator for other hardeners. Alternative to Mannich bases. Use with liquid epoxy resin (phr 40, resin EEW 190).
<b>Amidoamines</b>					
Q-RIT 431	100	400 - 800	75	55	For solventfree concrete coatings, flooring, adhesives, mortars or patching compounds. Can be used on green concrete. Use with liquid epoxy (phr 40, resin EEW 190).
<b>Polyamides</b>					
Q-RIT 515X70	70	800 - 1500	340	Several hours	For solventborne anticorrosion coatings. 70% solids in xylene. Excellent flexibility and adhesion, good chemical and corrosion resistance, non critical mixing ratio. Use with solid epoxy resin (phr 70-75, resin EEW 450-500).
Q-RIT 525	100	10000 - 14000 <sup>c</sup>	130	90	For solventborne and solventfree anticorrosion coatings, adhesives. Good flexibility and adhesion, good chemical and corrosion resistance, non critical mixing ratio. Use with liquid epoxy resin (phr 70, resin EEW 190)
Q-RIT 541	100	1000 - 3000 <sup>c</sup>	95	140	For solventfree anticorrosion coatings, adhesives, concrete repair. Flexibility and adhesion, temperature resistance, substrate impregnation. Low viscosity. Use with liquid epoxy resin (phr 50, resin EEW 190).
<b>Polyamide adducts</b>					
Q-RIT 622XB70	70	4000 - 10000	350	Several hours	For solventborne anticorrosion coatings. 70% solids in xylene:butanol. Outstanding flexibility, humidity and corrosion resistance. Cures at up to 70% relative humidity. Use with solid epoxy resin (phr 70-75, resin EEW 450-500).
Q-RIT 623XB60	60	800 - 2400	520	Several hours	For solventborne anticorrosion coatings. 60% solids in xylene:butanol. Outstanding flexibility, humidity and corrosion resistance. Cures at up to 60% relative humidity. Use with solid epoxy resin (phr 110, resin EEW 450-500).
Q-RIT 635XB80	80	Typical: 3000	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	For solventfree concrete primers, coatings and adhesives. Good substrate impregnation, outstanding adhesion to humid substrates and very good corrosion protection. Use with liquid epoxy resin (phr 60, resin EEW 190).
Q-RIT 652	100	800 - 1800	100	40 - 45	For solventfree concrete primers, coatings and adhesives. Low VOC hardener. Very high tolerance to wet substrates, outstanding adhesion to concrete, even not well prepared. Use with liquid epoxy resin (phr 55, resin EEW 190).
Q-RIT 655	90	2000 - 6000	190	Up to 2 hours	For high-solids anticorrosion coatings and adhesives. Excellent flexibility, good humidity and corrosion resistance. Adhesion on humid concrete. Underwater cure. Use with solid epoxy resin (phr 100, resin EEW 190).

a with liquid resin, EEW 190    b with solid resin, EEW 450-500    c measured at 40 °C