

CeTePox[®] for your Epoxy Systems
As individual as you are.



HARDENERS. RESINS. SYSTEMS. ADVANCED MATERIALS.

Let's talk about the future.

- Emission free epoxy systems.
- Waterborne epoxy curing agents.
- Long term resistance to chemicals.

Name	Characteristics	Nonylphenol-free	Benzyl alcohol-free	Viscosity DIN EN ISO 3219 25 °C ca. [mPas]	Recommended Quantity of Hardener [g ²⁾	H-Active-Equivalent Weight [g/Eq.]	Gardner Colour Index ISO 4630	Temp. Increase 23 °C → 40 °C appr. [min ¹⁾	Properties and Fields of Application
1015-01 NBF H	Modified aliphatic polyamines	●	●	230	81	148	< 8	13	Free from nonylphenol and benzylalcohol, flexibilising, w ater-repellent; coatings, putties, castings
1278 NF H	Modified cycloaliphatic polyamine, free from benzyl alcohol	●	●	140 ⁵⁾	46	78	< 6	30	Solvent and benzyl alcohol-free primers and coatings
1285 H	Modified cycloaliphatic polyamine	●		60 ⁵⁾	49	85	< 2	13	Low -viscous; for superior quality coatings and highly filled mortars
1287-01 NF H	Modified cycloaliphatic polyamine	●		120	50	87	< 5	24	Very low viscous; for highly filled coatings, self-levelling and floor screed mortars
1312 NF H	EP-stabilized cycloaliphatic polyamine	●		450 ⁵⁾	66	113	< 2	22	Superior quality coatings and mortars with good resistance to chemicals
1312 FS H	EP-stabilized cycloaliphatic polyamine	●		360	66	113	< 2	24	Similar to CeTePox[®] 1312 NF H ; suitable for food- and potable w ater contact
1312-05 H	EP-stabilized cycloaliphatic polyamine	●		620	60	104	< 2	18	Superior quality coatings and mortars with good resistance to chemicals and good through-cure
1313-02 H	EP-stabilized cycloaliphatic polyamine, accelerated	●		700	66	115	< 2	13	Superior quality coatings and mortars with good resistance to chemicals
1385 H	EP-stabilized cycloaliphatic polyamine	●		70 ⁵⁾	49	85	< 2	26	Reactive, phenol-free hardener for coatings and self-levelling mortars; low yellowing
1393 H	EP-stabilized cycloaliphatic polyamine	●		190 ⁵⁾	54	93	< 2	23	Good stabilized standard hardener w ith excellent general properties
1393 NF H	EP-stabilized cycloaliphatic polyamine	●		235 ⁵⁾	54	93	< 3	25	Nonylphenol-free version of CeTePox[®] 1393 H
1393-02 H	EP-stabilized cycloaliphatic polyamine, accelerated	●		400 ⁵⁾	54	93	< 2	14	Similar to CeTePox[®] 1393 H , faster curing
1393-08 NF H	EP-stabilized cycloaliphatic polyamine, accelerated	●		300 ⁵⁾	54	93	< 3	15	Nonylphenol-free version of CeTePox[®] 1393-02 H
1410 H	Modified heterocyclic polyamine	a)	●	550 ⁵⁾	55	95	< 3	6	Fast curing mortar coatings, adhesives, putties, tar-epoxy-systems
1434-01 NF H	modified aliphatic polyamine	●	●	175	66 ³⁾	134	< 6	32	Flexibilised self-levelling coatings, indoor mastic asphalt surfaces
1490 H	Modified aliphatic polyamine	a)	●	70 ⁵⁾	50	90	< 2	53	Hardener w ith long pot-life and excellent yellowing resistance; decorative coatings and mortars
1502 H	EP-stabilized cycloaliphatic polyamine, accelerated	●		250	55 ⁴⁾	102	< 2	23	Hardener w ith excellent resistance to chemicals and yellowing; decorative mortars
1510 H	EP-stabilized cycloaliphatic polyamine	●	●	525	53	93	< 5	27	Low emission standard flooring hardener w ith excellent general properties
1511 H	EP-stabilized cycloaliphatic polyamine	●	●	475 ⁵⁾	45 ⁴⁾	82	< 3	29	Emission-free "full reactive" hardener w ith excellent general properties
1537 H	EP-stabilized cycloaliphatic polyamine, accelerated	●		220 ⁵⁾	50 ⁴⁾	95	< 2	16	Accelerated hardener w ith good through-cure and improved resistance to w ater-spotting
1587 H	EP-stabilized cycloaliphatic polyamine	a)		440 ⁵⁾	50	87	< 4,5	28	Stabilised hardener w ith good general properties and longer pot-life for w armer climates
1588 H	EP-stabilized cycloaliphatic polyamine, accelerated	●		350	50 ⁴⁾	93	< 2	15	Stabilised hardener w ith good through-cure and w ater spotting resistance, excellent general properties
1588 L H	EP-stabilized cycloaliphatic polyamine	●		240	50 ⁴⁾	93	< 2	30	Non-accelerated version of CeTePox[®] 1588 H
1590 H	EP-stabilized aliphatic polyamine	●		200 ⁵⁾	52	90	< 1	71	Stabilised hardener w ith long pot-life, suitable for w armer climates
1594 H	EP-stabilized cycloaliphatic polyamine	●		180	54	94	< 2	15	Low -viscous stabilised standard hardener w ith excellent general properties
1613 H	Mannich-base, accelerator	●	●	300 ⁵⁾	-	0	< 7	-	Acceleration of epoxy hardeners (2-5 w .-% addition); in special cases for epoxy polymerisation
1614 NF H	Mannich-base, phenol-free	●		530	40 ⁴⁾	75	max. 4	12	Low -viscous fast-setting hardener for chemical-resistant coatings and epoxy mortars
1693 H	Mannich-base, phenol-free	●		1,300	54	93	< 6	11	Solvent-free chemical resistant epoxy systems
1950 H	EP-stabilized polyamidoamine	●		1,900	60	115	< 10	36	Primers for difficult, w et/moist substrates w ith excellent adhesion
1951 H	EP-stabilized polyamidoamine, accelerated	●		1,000	60 ⁴⁾	115	< 10	25	Accelerated version of CeTePox[®] 1950 H
1961 LV H	EP-stabilized polyamidoamine, accelerated	●	●	300	60 ⁴⁾	115	< 10	38	Low -viscous, emission-poor version of CeTePox[®] 1951 H , free from critical raw materials
1976-02 NF H	EP-stabilized flexibilised polyamines	●	●	1,500	110-133 ⁴⁾	254	max. 8	24	Flexibilising hardener, for flexible coatings, (joint) sealants etc.
VP 388-69 H	Accelerated cycloaliphatic polyamines	●	●	200	40	75	max. 6	10	Low -viscous fast-setting hardener w ith mannich-base like through-cure and excellent properties
VP 1728-9 H	EP-stabilized cycloaliphatic polyamine	●		350	48 ⁴⁾	88	< 5	17	Stabilised polyamine hardener yielding excellent resistance to chemicals

1) Temperature increase from 23 °C to 40 °C /100 ml mixture (insulated beaker) ,a) also available as nonylphenol-free version, 2) with 100 g CeTePox[®] 152 R, 3) with 100 g CeTePox[®] 134 R , 4) with 100 g CeTePox[®] 245 R , 5) at 23 °C

Name	Characteristics	nonyl-phenol-free	Mixing Ratio (A : B parts by weight)	Viscosity of Mixture DIN EN ISO 3219 23 °C appr. [mPas]	Temp. Increase 23 °C → 40 °C appr. [min] ¹⁾	Shore-D Hardness after 7d/23 °C ISO 868	Properties and Fields of Application
103 NF S	Two-component epoxy system, free from solvents, alkylphenols and benzyl alcohol	●	100 : 42	500	30	87	Low viscosity, excellent wetting and adhesion properties, low sensitivity to early water stress; primers on concrete, even when moisture-permeated from the backside
132 NF S	Two-component epoxy system free from solvents and alkylphenols	●	3 : 1	550	18	84	Low viscosity, excellent wetting and adhesion properties, low sensitivity to early water stress; primers on concrete
140 S	Two-component epoxy system free from solvents, alkylphenols and benzyl alcohol	●	100 : 40	580	24	80	Low viscosity, excellent wetting and adhesion properties; low sensitivity to early water stress; low emission (according EMICODE); primers, mortars
VP 1330 S	Two-component epoxy system free from solvents and alkylphenols	●	100 : 60	600	19	88	Excellent surface qualities, low yellowing, good water-spotting resistance; decorative sealers and coatings

1) Temperature Increase from 23 °C to 40 °C with 100 ml of mixture in an insulated beaker

CeTePox® - Epoxy Resins & Flexible Modifiers

Name	Characteristics	Viscosity DIN EN ISO 3219 appr. [mPas]	Epoxy Equivalent Weight appr. [g/Eq]	Epoxy Value appr. Eq./100 g	Gardner Colour Index ISO 4630	Properties and Fields of Application
100 R	Unmodified bisphenol-A epoxy resin	15.000 (23 °C) 11.000 (25 °C)	188	0,53	< 1	Medium viscosity, low crystallisation tendency, universal applicability in amine-curing, solvent-free epoxy systems
152 R	Reactive diluted bisphenol-A epoxy resin	1.030 (23 °C)	182	0.55	< 2	Low viscosity; standard type with universal applicability
159 R	Reactive diluted bisphenol-A epoxy resin	165 (23 °C)	172	0.58	< 2	Extremely low viscous; for highly filled primers/coatings
200 R	Unmodified bisphenol-F epoxy resin	5.000 (25 °C)	169	0.59	< 1	Medium viscosity, universal applicability in amine-curing, solvent-free epoxy systems
212 R	Unmodified bisphenol-A/ bisphenol-F liquid resin	110.500 (23 °C)	181	0,55	< 2	Medium viscosity, crystallisation-free universal applicability
220 R	Accelerated bisphenol-A/ bisphenol-F liquid resin	5.500 (25 °C)	195	0,51	< 2	Medium viscous, crystallisation-free for accelerating through-cure
245 R	Reactive diluted bisphenol-A/ bisphenol-F liquid resin	950 (23 °C)	193	0.52	< 2	Low viscosity, crystallisation-free; for solvent-free coating-systems, laminating and casting resins
252 R	Reactive diluted bisphenol-A/ bisphenol-F liquid resin	850 (23 °C)	179	0.56	< 2	Low viscosity, crystallisation-free; for solvent-free coating-systems, laminating and casting resins
293 R	Reactive diluted bisphenol-A/ bisphenol-F liquid resin	800 (23 °C) 700 (25 °C)	193	0.52	< 2	compared to CeTePox® 245 R lower viscosity at lower temperatures, for solvent-free coating-systems

Name	Characteristics	Viscosity DIN EN ISO 3219 23 °C appr. [mPas]	Epoxy Equivalent Weight appr. [g/Eq]	NCO-Content (blocked) [%]	Gardner Colour Index ISO 4630	Properties and Fields of Application
700 FM	Branched polyether-urethane with capped isocyanate groups	61,000	900	2.6	-	solvent-free, for elastifying of amine-curing epoxy systems, e.g. highly flexible coatings, adhesives, sealing materials

Waterborne CeTePox[®] Epoxy-Binders

CeTePox[®] - Epoxy Resins

Name	Characteristics	Viscosity DIN EN ISO 3219 23 °C appr. [mPas]	Epoxy Equivalent Weight appr. [g/Eq]	Epoxy Value appr. Eq./100 g]	Gardner Colour Index ISO 4630	Properties and Fields of Application
245 R	Reactive diluted bisphenol-A/ bisphenol-F liquid resin	920	193	0.52	< 2	Low viscosity, crystallisation-free for solvent-free and water-borne coating-systems, laminating and casting resins
440 R	Emulsifiable BP-A/F resin w ith epoxy-functional emulsifier	6.700 (25°C)	198	0.51	< 2	Water-reducible, pigmentation possible, for water reducible primers and coatings
464 R	Special modified bisphenol-A/ bisphenol-F liquid resin	1700	208	0.48	< 3	Water-reducible, pigmentation possible, for water reducible primers and coatings
490 E	Emulsifier concentrate based on liquid bisphenol-A epoxy resin	320 (25 °C)	295	0.34	< 2	For manufacturing of water-dilutable liquid epoxy resins

CeTePox[®] - Hardeners

Name	Characteristics	Viscosity DIN EN ISO 3219 23 °C appr. [mPas]	Recommended Quantity of Hardener [g] ²⁾	H-Active- Equivalent Weight [g/Eq.]	Gardner Colour Index ISO 4630	Properties and Fields of Application
1921 H	Modified polyamidoamine, 50 % in water	18,000	100	210	< 12	Water reducible hardener; for water reducible primers and (finishing) coatings
2320 H	Water-reducible modified cycloaliphatic polyamine 80% in water	14,000	100	200	< 6	Water reducible hardener; for water reducible primers and (finishing) coatings, longer pot-life
2419 H	Water-reducible modified cycloaliphatic polyamine 70% in water	14,500	105	215	< 6	Water reducible hardener; for water reducible primers and (finishing) coatings, with pot-life indication
2420 H	Water-reducible modified cycloaliphatic polyamine 80% in water	6,750	100	185	< 6	Similar to CeTePox[®] 2419 H , better dilution properties, higher solid content; with pot-life indication
VP 1528-1 H	Modified polyamidoamine, 50 % in water	43,000	146	210	max. 16	Water reducible hardener; for water reducible concrete primers and coatings, sealers

1) 100 ml mixture (insulated beaker), 50 % mixture solid content , 2) with CeTePox[®] 245 R, 3) no visible viscosity increase , 4) visible potlife increase with CeTePox[®] 245 R, solid content of mixture 50 w.-%,

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Aditya Birla Chemicals (Thailand) Ltd.
888/167, 16th floor Mahatun Plaza, Ploenchit Road, Lumpini, Pathumwan, Bangkok -10330.
Tel Nos. : +66- (2) -2535031-33, Fax Nos.: +66-(2)-2453-5030
For more information, please visit us at www.epotec.info