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COATING RESINS

Product Catalogue 2018 Edition

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Synthetic Resins Division | Eternal Materials



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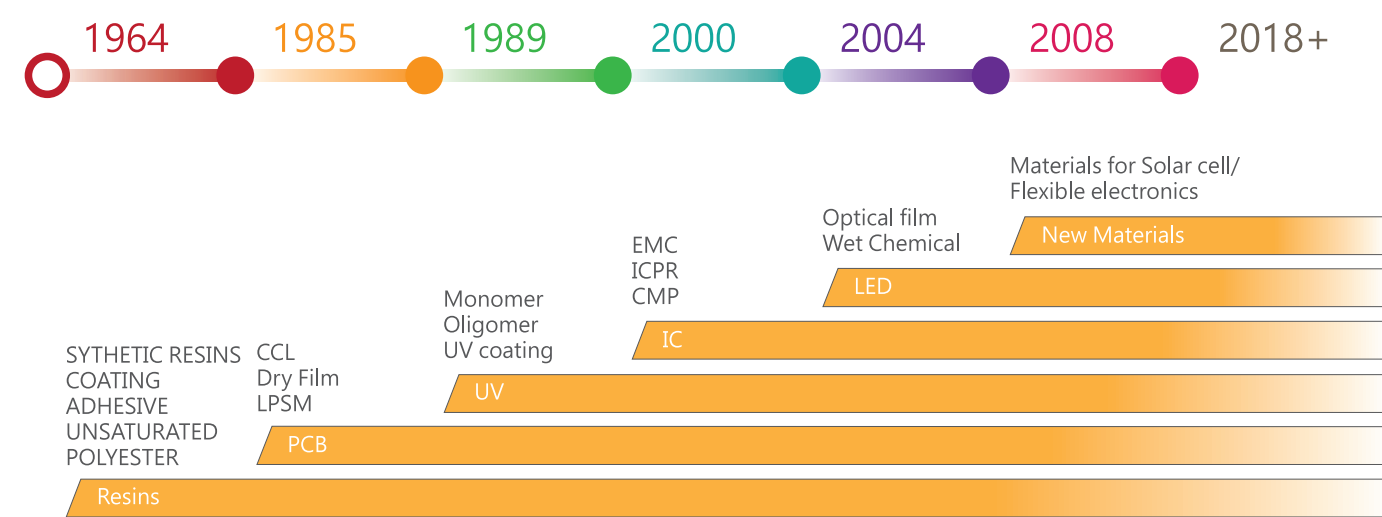
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Development Milestones



Business Philosophy / Prospect

Business Philosophy	• We strive to ensure the shareholder's rights. • We make efforts to strengthen corporate governance. • We respect the rights of the stakeholder. • We are devoted to social responsibility. • We care about the employees' welfare.
Corporate Culture	• We are a law-abiding company that keeps promises and morality. • We make contribution to the society. • We value the employees' integrity and strive to beautify the work environment. • We cultivate the employees' sense of national pride.
Quality Policy	• "Research, Development, Innovation and Environmental Protection"
Prospect	• Rooted in Taiwan, Based in Asia, Embrace the World, to be a global-brand supplier of electronics industry-specific chemical materials.

International Certificate

- ISO9001 Quality Management System Certificate
 - All plants in Taiwan have been certified
 - 18 production subsidiaries which are based in the United States, Thailand, Japan and China have been verified
- ISO14001 Environmental Management System Certificate
 - All plants in Taiwan have been certified
 - 14 subsidiaries in China and Japan have been certified
- OHSAS18001 Occupational Health and Safety Management System Certificate
 - All plants in Taiwan have been certified
 - 9 subsidiaries in China have been certified

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Extreme Long Oil Alkyd

Recommended Guidance

Product Name	Type	Oil Length (%)	N.V. (±1%)	Solvent	Viscosity (G-H,25°C)	Color Max (Gardner)	Acid Value (Max)	1K	1K Baking	2K	Deco	Vehicle Refinish	Metal	MPC	Plastic	Wood	Performance
ETERKYD 1210-M-100	Linseed	73	97	Mineral Spirits	W - Y	8	10	●									● Fast dry, High solid, Durability
ETERKYD 1210-M-100A	Linseed	73	97	Mineral Spirits	T - W	8	10	●									● Better fast dry, High solid, Durability

Long Oil Alkyd

Recommended Guidance

Product Name	Type	Oil Length (%)	N.V. (±1%)	Solvent	Viscosity (G-H,25°C)	Color Max (Gardner)	Acid Value (Max)	1K	1K Baking	2K	Deco	Vehicle Refinish	Metal	MPC	Plastic	Wood	Performance
ETERKYD 1107-M-70	Soya	60	70	Mineral Spirits	Z3 - Z6	7	10	●			●		●	●			● Pigment dispersion, Fast dry, Durability
ETERKYD 1108-M-70-2	Soya	60	70	Mineral Spirits	Z7 - Z8	7	8	●			●		●	●			● High viscosity, Durability
ETERKYD 11085-M-70	Soya	55	70	Mineral Spirits	Z5 - Z7	5	8	●			●		●	●			● Light color
ETERKYD 11086-M-70	Soya	60	70	White Spirit / Xylene	Z3 - Z4	8	5-10	●			●		●	●			● Low viscosity
ETERKYD 1108-M-80-3	Soya	60	80	Mineral Spirits	Z5 - Z7 (70%)	6	8	●			●		●	●			● High solid, Durability

Medium Oil Alkyd

Recommended Guidance

Product Name	Type	Oil Length (%)	N.V. (±1%)	Solvent	Viscosity (G-H,25°C)	Color Max (Gardner)	Acid Value (Max)	1K	1K Baking	2K	Deco	Vehicle Refinish	Metal	MPC	Plastic	Wood	Performance
ETERKYD 2105-X-55-1	Soya	40	55	Xylene	Q - T	7	10	●				●	●	●			Durability
ETERKYD 2105-M-70	Soya	40	70	Xylene / S 100	Z - Z3 (60%)	8	4 - 10	●					●	●			● Pigment dispersion, Fast dry, Durability
ETERKYD 2109-M-55	Soya	46	55	Mineral spirits / VM&P Naphtha	X - Z	7	10	●					●	●			● Chlofinated rubber compatible, Pigment dispersion, Fast dry
ETERKYD 2109-M-70	Soya	46	70	Mineral spirits	Y - Z2 (55%)	7	10	●					●	●			● Chlofinated rubber compatible, Pigment dispersion, Fast dry



Short Oil Alkyd

Recommended Guidance																		
Product Name	Type	N.V. (±1%)	OHv (Solid)	(Solid)	Solvent	Viscosity (G-H, 25°C)	Color Max (Gardner)	Acid Value (Max)	1K	1K Baking	2K	Deco	Vehicle Refinish	Metal	MPC	Plastic	Wood	Performance
ETERKYD 3102-X-60	Soya	60	80	2.4	Xylene	Z2 - Z4	5	3 - 8		●	●			●			●	Sandibility, Durability, Fast dry
ETERKYD 3106-X-70	Soya	70	120	3.6	Xylene	X - Z1(60%)	5	10		●	●						●	Universal, Hardness
ETERKYD 3107-X-60	Soya	60	100	3.0	Xylene	Z6 - Z7	3	27		●	●			●			●	Matting effect, Fast dry
ETERKYD 312-X-70	Soya	70	120	3.6	Xylene	Z - Z3	4	3 - 6		●	●			●				Gloss
ETERKYD 31046-X-70	Soya	70	120	3.6	Xylene / S 100	Z6 - Z7	3	15			●						●	Sandibility, Light color, Fast dry
ETERKYD 3301-X-70-3	Coconut	70	135	4.1	Xylene	Z1 - Z4	*150	5 - 10		●	●		●	●			●	Universal, Hardness
ETERKYD 3303-X-70	Coconut	70	140	4.2	Xylene	Z4 - Z6	1	3 - 7		●	●		●	●			●	Matting effect
ETERKYD 3304-X-70	Coconut	70	120	3.6	Xylene	X - Z	*150	15		●	●		●	●			●	Gloss
ETERKYD 3306-X-70	Coconut	70	140	4.2	Xylene	Z - Z3	2	3 - 8		●	●		●	●			●	Sandibility, Light color, Fast dry
ETERKYD 3401-X-70-1	Castor	70	N/A	N/A	Xylene	Z4 - Z6	3	20-28		●				●			●	Toughness ,Pigment dispersion
ETERKYD 3406-X-70-1	Castor	70	N/A	N/A	Xylene	Z4 - Z6	3	3 - 6		●				●			●	Light color
ETERKYD 3601-X-70	TOFA	70	125	3.8	Xylene	Y - Z2	3	3 - 7		●	●			●			●	Light color, Gloss, Adhesion on metal
ETERKYD 3603-X-70	TOFA	70	125	3.8	Xylene	Y - Z2	7	3 - 7		●	●			●			●	Fast dry, Gloss, Adhesion on meta
ETERKYD 3754-X-70	Saturated FA	70	140	4.2	Xylene	Z3 - Z5	*150	6 - 12		●	●			●			●	Light color
ETERKYD 3755-X-80	Saturated FA	80	150	4.5	Xylene / BAC	W - Z	*30	12		●	●			●			●	Superior light color, Fast dry
ETERKYD 3801-X-70	Rice / Chain Stopped	70	N/A	N/A	Xylene	Z - Z3	5	5 - 10	●								●	Gloss, Durability

* Alpha



Modified Resin

Recommended Guidance																
Product Name	Modification	N.V. (± 1%)	Solvent	Viscosity (G-H, 25°C)	Color Max (Gardner)	Acid Value (Max)	1K	1K Baking	2K	Deco	Vehicle Refinish	Metal	MPC	Plastic	Wood	Performance
ETERKYD 242-XM-60	Styrene	60	Xylene / Mineral spirit	Z4 - Z6	8	10	●	●		●		●				Fast dry, Gloss retention, Hammer tone finish
ETERKYD 3182-M-50	Urethane	51	Xylene / S 100	P - W	6	5 - 10	●					●	●		●	Fast dry, Chemical resistance
ETERKYD 3243-X-70	Phenolic	70	Xylol	T - W(50%)	10	22 - 23	●	●				●	●	●		Fast dry, Excellent chemical resistance
ETERKYD 3432-R-50-1	Acrylic	50	S 150	U - W	4	10		●				●				Hardness, Gloss, Wet on wet
ETERKYD 3432-R-60B	Acrylic	60	S 150	U - W	3	10		●				●				Yellowing resistance, Hardness,Gloss,Wet on wet
ETERKYD 3862-X-55	Amino	55	Xylene	S - V	3	7	●	●				●			●	Fast dry, Gloss, Chemical resistance
ETERKYD NP1022-BR-50-1	Epoxy ester	50	S 150 / BCS	Z1 - Z3	3	3		●				●				Yellowing resistance, Wet on wetGloss, Chemical resistance
ETERKYD NP1023-R-50	Epoxy ester	50	S 150	Z5 - Z7	3	3		●				●				Yellowing resistance, Wet on wetGloss, Chemical resistance

Silicone Modified Polyester

Recommended Guidance																
Product Name	Modification	N.V. (± 1%)	Viscosity (G-H, 25°C)	Color Max (Gardner)	Acid Value (Max)	Silicone content (%)	1K	1K Baking	2K	Deco	Vehicle Refinish	Metal	MPC	Plastic	Wood	Performance
ETERKYD 50713-S-60-1	Silicone	60	V - Y	1	10	15		●				●				Economic, Heat resistance
ETERKYD 50714-S-60-1	Silicone	60	V - Y	1	10	15		●				●				Acetic acid resistance, Heat resistance
ETERKYD 50732-S-60	Silicone	60	V - Y	1	10	30		●				●				Universal, Heat resistance
ETERKYD 50761-S-60	Silicone	60	T - V	1	10	50		●				●				High Silicone content, Heat resistance,
ETERKYD 50766-S-60	Silicone	60	U - X	1	10	50		●				●				High Silicone content, Heat resistance, High hot-hardness, Gloss

Adhesion Promoter

Recommended Guidance															
Product Name	N.V. (± 1%)	Solvent	Viscosity (G-H, 25°C)	Color Max (Gardner)	Acid Value (Max)	1K	1K Baking	2K	Deco	Vehicle Refinish	Metal	MPC	Plastic	Wood	Performance
ETERKYD 4901-B-72	72	BCS / NBA	V - W	2	29 - 32	●	●			●	●	●	●	●	Adhesion promoter
ETERKYD 4909	80	Isopropanol	U - Y	*100	60 - 80		●			●	●	●	●		silicone-free ,non-ferrous metal
ETERKYD 49031-X-60	60	Xylene	Q - T	2	20 - 30	●	●	●		●	●	●	●		Metallic orientation

* Alpha

Saturated Polyester

Recommended Guidance																	
Product Name	N.V. (±1%)	Solvent	OHv (solid)	OH % (solid)	Viscosity (G-H, 25°C)	Color Max (Gardner)	Acid Value (Max)	1K	1K Baking	2K	Deco	Vehicle Refinish	Metal	Can	Plastic	Wood	Performance
ETERKYD 3330-X-70-2	70	Xylene	N/A	N/A	X - Z	3	6 - 10	●	●	●	●	●	●	●	●	●	Compatible with Alkyd, Polyester, Acrylic, Pigment dispersion
ETERKYD 5051-X-65	65	Xylene	60	1.8	W - Y	2	15 - 25		●			●	●				Compatible with CAB, Hardness, Toughness
ETERKYD 5052-R-60	60	S 150	50	1.5	W - Y	2	6 - 10		●			●	●				Hardness, Toughness
ETERKYD 5055-R-65-3	65	S 150	60	1.8	Z5 - Z6	2	4 - 8		●				●				Hardness, Excellent durability
ETERKYD 5055-R-70	70	BCS / S 150	55	1.7	Z4 - Z6	1	2 - 8		●				●				Universal, Workability, Leveling
ETERKYD 50558-R-70	70	S 150 / Xylene	60	0.8	Z4 - Z6	1	8 - 12		●				●				Hardness, Toughness, Adhesion, Excellent durability
ETERKYD 50551-R-60	60	S 150 /	25	1.8	X - Z	1	2 - 5		●				●				Universal, Workability, Hardness
ETERKYD 50561-R-60	60	S 150 / CAC	40	1.2	Z3 - Z5	2	6 - 12		●				●	●			Hardness, MEK resistance
ETERKYD 5065-R-65	65	S 150 / BCS	65	2.0	Z3 - Z6	3	4 - 10		●				●	●			Cardura E-10 modified, Pigment dispersion, Sterilization, Wet on wet
ETERKYD 5066-R-55	55	S 150/S 200	20	0.6	Z - Z2	2	3		●				●	●			Excellent workability
ETERKYD 5069-R-55	55	S 150 / BCS	25	0.8	Z - Z2	2	6-8		●				●	●			Workability, Sterilization
ETERKYD 5084-R-60-6	60	S 100 / PMA	15	0.5	Y - Z1	1	4 - 8		●				●				Chemical resistance, Coil primer
ETERKYD 5091-R-60	60	S 150	75	2.3	Z - Z2	2	5-10		●				●				Hardness, Coil back coat



Hydroxy Functional Saturated Polyester

Recommended Guidance																	
Product Name	N.V. (±1%)	Solvent	OHv (Solid)	OH % (Solid)	Viscosity (G-H, 25°C)	Color Max (Gardner)	Acid Value (Max)	1K	1K Baking	2K	Deco	Vehicle Refinish	Metal	Can	Plastic	Wood	Performance
ETERKYD 5063-X-70	70	Xylene	60	1.8	Z - Z2	1	3 - 8										● Workability, Hardness
ETERKYD 5067-R-67	67	MPA / Xylene	180	5.5	Z5 - Z7	3	2		●	●			●			●	Fast dry, Hardness, Toughness
ETERKYD 5059-X-95	95	Xylene	175	5.3	U - W	1	3 - 6			●		●					Compatible with Acrylic Polyol to improve film building
ETERKYD 5063-B-80	80	BAC	140	4.2	Z1 - Z3	2	10		●	●			●			●	Flexible, Gloss, Film building

High Molecular Weight Polyester

Recommended Guidance																	
Product Name	N.V. (±1%)	Solvent	Viscosity (G-H, 25°C)	Color max (Gardner)	Acid Value (Max)	Molecular Weight	Tg (°C)	1K	1K Baking	2K	Deco	Vehicle Refinish	Metal	Can	Plastic	Wood	Performance
ETERKYD 5016-R-33	33	Cyclohexanone / S 150	X - Z	1	3	20000 - 25000	8		●				●	●			Low Tg
ETERKYD 5054-PR-40	40	S 150 / PMA	Z - Z1	1	3	20000 - 28000	47		●				●	●			Flexibility, Adhesion, Compatibility with printing ink
ETERKYD 5058-R-40	40	S 150 / CAC	Y - Z2	2	2	15000 - 20000	67		●				●	●			High Tg, Adhesion
ETERKYD 5081-R-40-1	40	Cyclohexanone / S 150	Z3 - Z5	2	5	20000 - 28000	70		●				●	●			High Tg, Solvent resistance, Content Block Isocynate
ETERKYD 50141-TK-40	40	MEK / Toluene	U - Z	3	3	26000	10		●				●				Low Tg, Elongation, Sterilization

PVC Film Adhesion Polyester

Recommended Guidance																	
Product Name	N.V. (±1%)	Solvent	Viscosity (G-H, 25°C)	Color max (Gardner)	Acid Value (Max)	Molecular Weight	Tg (°C)	1K	1K Baking	2K	Deco	Vehicle Refinish	Metal	Can	Plastic	Wood	Performance
ETERKYD 5000A	33	S 150 / CAC	*80 - 100	2	3	N/A	67		●				●				PVC Adhesion, Chemical resistance
ETERKYD 50041A	40	Xylene / Toluene / MEK	W - X	3	6 - 9	N/A	60		●				●				PVC Adhesion, Low PMT, Toughness Chemical resistance
ETERKYD 5000B	75	PMA	*40 - 80	2	N/A	N/A	N/A		●				●				Curing agent
ETERKYD 5002B	> 98	N/A	N/A	13	N/A	N/A	N/A		●				●				Curing agent with Fast curing property

* Cps

Solid Thermoplastic Acrylic Beads Resins

Product Name	Appearance	Tg (°C)	N.V. (± 1%)	Molecular weight	Performance	Recommended Guidance
ETERAC B-714L	beads	70	> 98	70000	Gloss, Adhesion, Chemical resistance	Base coat (on coil coating)
ETERAC B-7141	beads	60	> 98	80000	Gloss, Adhesion, Chemical resistance	Base coat (on coil coating)
ETERAC B-761L	beads	40	> 98	60000	Flexibility, Adhesive on opp film	Top coat on opp film or paper
ETERAC B-7151	beads	110	> 98	50000	Great hardness, Flexibility, Good aluminum adhesion, Fast solvent release	Coating on PET, Plastic coating, Metallic inks
ETERAC B-712L	beads	50	> 98	40000	Hard, Toughness, Durability, Fast solvent release	Road paints, Printing ink, Plastic, Metal, Wood and Concrete
ETERAC B-717L	beads	36	> 98	140000	Good adhesion, Flexibility, Chemical and Water resistance	Heat sealing, Lacquers and ceramic transfer lacquers
ETERAC B-763L	beads	50	> 98	50000	Fast solvent release, Good weatherability, Outstanding color acceptance	Alkyd modifiers, Ink

Acrylic PMMA Powder

Product Name	Appearance	Moisture content (%)	N.V. (± 1%)	Corsslinking Strenth	Performance	Recommended Guidance
ETERAC P-CT-5	white powder	<1	> 98	Medium	Scratch, Grind, Solvent resistance	Ink, industrial and plastic coating for electronics and home appliances
ETERAC P-CT-10	white powder	<1	> 98	Medium	Scratch, Grind, Solvent resistance	Ink, Industrial and 4C plastic coating
ETERAC P-CT-40	white powder	<1	> 98	Medium	Scratch, Grind, Solvent resistance	Coil Coating
ETERAC P-CT-150	white powder	<1	> 98	Medium	Scratch, Grind, Solvent resistance	Leather Paint
ETERAC P-CM-5S	white powder	<1	> 98	Miedium	Soft touch,Slip, Gloss	Cosmetic in foundation makeup, eye shadow, face powder
ETERAC P-MER-5D	white powder	<1	> 98	Medium	Purity, Solvent resistance, High dispersibilty with polyester or acrylic resin	LCD/LED diffuse coating
ETERAC P-MER-15D	white powder	<1	> 98	Medium	Purity, Solvent resistance, High dispersibilty with polyester or acrylic resin	LCD/LED diffuse coating



Thermoplastic Acrylic

Recommended Guidance													
Product Name	N.V. (± 1%)	Solvent	Viscosity (G-H, 25°C)	Tg (°C)	Acid Value (Max)	1K	Deco	Vehicle Refinish	Metal	MPC	Plastic	Wood	Performance
ETERAC 7106-X-58	58	Xylene	*25000-35000	65	N/A	●	●			●			Hardness, Gloss
ETERAC 7108-X-54	54	Xylene	*25000-50000	35	N/A	●	●		●	●			Economic, Flexibility, Gloss
ETERAC 7109-X-50	50	Xylene	*25000-50000	50	2 - 6	●	●		●	●			Universal, Durability
ETERAC 7117-TS-45	45	Toluene / n-Butanol	Z3 - Z5	50	1 - 5	●					●		UV & PU top coat interlayer adhesion, Alcohol resistance
ETERAC 7119-TB-50	50	Toluene / n-Butanol	W - Z	50	4 - 9	●					●		Fast dry, Durability
ETERAC 7119-X-50	50	Xylene	Z - Z1	50	3 - 9	●	●		●	●			Universal, Durability
ETERAC 7121-M-50	50	S 100	W - Z	50	2 - 6	●	●			●			Gloss
ETERAC 7123-X-50	50	Xylene	Z - Z1	50	3 - 8	●	●		●	●	●		Gloss
ETERAC 7127-M-40	40	S 100	V - Y	60	2 - 8	●	●		●	●	●		Hardness, Durability
ETERAC 7132-2-M-50	50	S 100	Z2 - Z5	50	2 - 6	●	●		●	●	●		Pigment dispersion
ETERAC 7612-1	60	S 100	Z5 - Z8	65	3 - 7	●	●			●	●		Low odor, gloss, lowpolar, masonry paint
ETERAC 7627-2	40	Toluene / EAC	T - V	65	2 - 4	●	●				●		Dry fast, hardness,Durability
ETERAC 76183-2	50	Toluene / EAC	W - Z	N/A	5	●					●		CPO modification, PP adhesion

*Viscosity : Cps

Thermosetting Acrylic

Product Name	N.V. (± 1%)	Solvent	Viscosity (G-H, 25°C)	Acid Value	Recommended Guidance							Performance
					1K Baking	Deco	Vehicle OEM	Metal	Can	MPC	Plastic	
ETERAC 7203-X-60	60	Xylene	W - Y	7 - 13	●		●	●				Universal, Durability, Mid hardness
ETERAC 7203-X-70	70	Xylene	Z3 - Z5	10 - 15	●		●	●				Universal, Durability, Mid hardness, High solid
ETERAC 7234-R-55	55	S 150 / n-Butanol	Y - Z2	7 - 10	●			●	●			Pigment dispersion
ETERAC 7235-R-55	55	S 150	Z2 - Z4	8 - 13	●			●	●			Pigment dispersion, FDA comply
ETERAC 7256-BR-60	60	S 150 / n-Butanol	*5000 - 6500	7 - 12	●			●	●			Adhesion
ETERAC 7257-BR-50	50	S 150 / n-Butanol	W - Y	5 - 10	●			●		●		Adhesion
ETERAC 7205-XB-50	50	Xylene / n-Butanol	U - W	2 - 5	●		●	●				Metallic orientation, Pigment dispersion, Recoating
ETERAC 7212-XB-60	60	Xylene / n-Butanol	Y - Z2	5 - 9	●		●	●				Metallic orientation, Pigment dispersion, Gloss, Hardness, Impact resistance, Recoating
ETERAC 7226-1-B-60	60	BCS / Xylene	Z5 - Z7	95 - 115	●		●	●				Hardness, Adhesion, Gloss, Salt spray resistance, Low baking temp

SCA Modified Resins

Product Name	N.V. (± 1%)	Solvent	Viscosity (G-H, 25°C)	Acid Value	Recommended Guidance							Performance
					1K Baking	Deco	Vehicle OEM	Metal	Can	MPC	Plastic	
ETERKYD 50922-R-50	50	S 100 / Xylene	5 rpm (20000~35000 cps) 100 rpm (3000~4500 cps)	N/A	●		●					CAB compatibility, Sagging control, Metallic effect, use with 50549-R-60
ETERAC 74266-MS-60	60	BAC / S 100	460 rpm (3000~8000 cps) 46 rpm (20000~45000 cps)	N/A	●		●					Gloss, DOI, Chemical resistance, Sagging control, use with 7266-M-65

*Viscosity : Cps



Acrylic Polyol Low OHv

Recommended Guidance														
Product Name	N.V. (± 1%)	Solvent	Viscosity (G-H, 25°C)	OHv (Solid)	OH% (Solid)	Acid Value (Max)	2K	Deco	Vehicle Refinish	Metal	MPC	Plastic	Wood	Performance
ETERAC 73011-XP-56	56	Xylene / PMA	W - Y	33	1	3 - 9	●	●	●	●	●	●	●	Compatible with Alkyd, Polyester, Acrylic, Pigment dispersion
ETERAC 7340-1-TS-50	50	Toluene / BAC	T - W	30	0.9	4 - 8	●		●			●	●	Adhesion, Flexibility, Durability
ETERAC 7338-M-60	60	S 100	X - Z	40	1.2	3 - 9	●		●		●			Rapid dry, Adhesion, Recoat
ETERAC 7399-2-XS-60	60	Xylene / BAC	Z2 - Z4	48	1.5	4 - 9	●		●			●	●	Rapid dry, Adhesion, Durability, Pot life
ETERAC 7305-2-XS-50	50	Xylene / BAC	S - V	50	1.5	0.5 - 3	●		●			●		Rapid dry, Hardness, Adhesion, Durability
ETERAC 7398-XS-60	60	Xylene / BAC	Z2 - Z4	60	1.8	6 - 9	●		●			●		Rapid drying, Gloss, Adhesion
ETERAC 7315-XS-60	60	Xylene / BAC	Z3 - Z4	60	1.8	3 - 8	●		●			●		Rapid dry, Stain resistance, Metallic orientation, Excellent Durability
ETERAC 73200-1-X-55	55	Xylene	S - V	66	2	6 - 11	●		●					Rapid dry, Sandibility, Impact resistance
ETERAC 7328-ST-51	51	BAC / Toluene	Z - Z2	66	2	3 - 6	●		●			●	●	Rapid dry, Adhesion, Metallic orientation
ETERAC 7328-S-50	50	BAC	*1600 - 2800	66	2	3 - 6	●		●			●	●	Xylene free, Rapid dry, Adhesion, Metallic orientation

*Cps

Acrylic Polyol Mid OHv

Recommended Guidance														
Product Name	N.V. (± 1%)	Solvent	Viscosity (G-H, 25°C)	OHv (Solid)	OH% (Solid)	Acid Value (Max)	2K	Deco	Vehicle Refinish	Metal	MPC	Plastic	Wood	Performance
ETERAC 7329-TS-45	45	Toluene / Ethyl Acetate	Y - Z1	77	2.3	6 - 10	●		●			●	●	Rapid drying, Adhesion, Chemical & stain resistance
ETERAC 7303-X-63	63	Xylene	Z3 - Z5	80	2.4	4 - 8	●		●		●			Gloss, Chemical resistance, Adhesion
ETERAC 7333-2-X-60	60	Xylene	*2500 - 3500	80	2.4	8 - 13	●				●			Gloss, Chemical resistance, Adhesion
ETERAC 7339-XS-70	70	Xylene / BAC	Z 3 - Z5	80	2.4	2 - 8	●		●		●			Excellent durability
ETERAC 7302-2-XC-60	60	Xylene / CAC	W - Z	90	2.7	4 - 9	●				●			Adhesion on ABS, Chemical resistance
ETERAC 7333-X-60	60	Xylene	*2500 - 3500	90	2.7	8 - 13	●				●			Gloss, Chemical resistance, Adhesion
ETERAC 7333-M-60	60	S 100	Y - Z	90	2.7	4 - 6	●		●		●			Xylene free, Gloss, Chemical resistance, Adhesion
ETERAC 73013-X-60	60	Xylene	Y - Z2	90	2.7	6 - 10	●		●					Water resistance, Gloss, Chemical resistance, Adhesion
ETERAC 73060-X-60	60	Xylene	Z2 - Z5	90	2.7	5 - 9	●		●					Gloss, Hardness
ETERAC 7377-MX-70	70	S 100 / Xylene	Z4 - Z6	90	2.7	4 - 9	●		●					Gloss, Adhesion, Chemical resistance
ETERAC 7308-S-70	70	Butyl acetate	Z2 - Z4	100	3	8 - 14	●		●		●			Gloss, Chemical & stain resistance, adhesion
ETERAC 7376-XS-70	70	Xylene / BAC	Z2 - Z4	100	3	6 - 11	●		●		●			Fast dry, Hardness
ETERAC 7303-4-X-60	60	Xylene	Z3 - Z5	100	3	2 - 6	●		●					Gloss, Hardness
ETERAC 7331-1-XS-70	70	Xylene / BAC	Z3 - Z5	100	3	7.5 - 11.5	●		●					Gloss, High solid, Durability
ETERAC 7341-X-65	65	Xylene / S 100	Z3 - Z5	100	3	8 - 13	●		●					Gloss, Flexibility, Pigment dispersion

*Cps

Acrylic Polyol High OHv

Recommended Guidance															
Product Name	N.V. (± 1%)	Solvent	Viscosity (G-H, 25°C)	OHv (Solid)	OH% (Solid)	Acid Value (Max)	2K	Deco	Vehicle Refinish	Metal	MPC	Plastic	Wood	Performance	
ETERAC 7322-3-X-60	60	Xylene / BAC	Z1 - Z4	120	3.6	6	●						●	Universal, Gloss, Hardness	
ETERAC 7322-2-XS-70	70	Xylene / BAC	Z4 - Z6	120	3.6	5	●						●	Universal, Gloss, Hardness	
ETERAC 7392-S-70	70	BAC	Z4 -Z6	120	3.6	7 - 11	●		●				●	Rapid dry, Gloss, Durability	
ETERAC 7385-X-50	50	Xylene	W - Y	130	3.9	4 - 12	●		●		●			Chemical resistance, Solid color coat	
ETERAC 7306-XP-60	60	Xylene / PMA	Y - Z2	140	4.2	6 - 10	●		●		●			Gloss, Chemical resistance	
ETERAC 7307-2-S-70	70	BAC	Z2 - Z4	140	4.2	8 - 14	●		●					Universal, Durability, Leveling	
ETERAC 7307-XS-70	70	Xylene / BAC	Y - Z2	140	4.2	8 - 14	●		●					Universal, Low viscosity, Durability, Film building	
ETERAC 7307-2-PM-70	70	PMA / S 100	Z2 - Z4	140	4.2	8 - 14	●		●					Gloss, Durability, Film building	
ETERAC 7317-XS-70	70	Xylene / BAC	Z3 - Z5	140	4.2	8 - 13	●		●					Superior Durability	
ETERAC 73864-S-70	70	BAC	Z1 - Z4	140	4.2	14 - 19	●		●					Fast dry, Durability	
ETERAC 73626-S-70	70	BAC	Z1 - Z3	150	4.5	7 - 10	●		●					Fast dry, Gloss, Hardness, Chemical resistance	
ETERAC 7318-2-XP-60	61	Xylene / PMA	Z3 - Z5	150	4.5	7 - 12	●		●					Excellent durability, Chemical & Stain resistance	

High-Solids Acrylic Polyol

Recommended Guidance														
Product Name	N.V. (± 1%)	Solvent	Viscosity (G-H, 25°C)	OHv (Solid)	OH% (Solid)	Acid Value (Max)	2K	Deco	Vehicle Refinish	Metal	MPC	Plastic	Wood	Performance
ETERAC 7397-2-S-80	80	BAC	*7000 - 9000	70	2.1	4 - 9	●				●			Gloss, Low VOC
ETERAC 73006-S-80	80	BAC	Z3 - Z5	70	2.1	6	●				●			Gloss, Adhesion, Low VOC, Durability
ETERAC 7354-K-80	80	MAK	Z2 - Z4	116	3.5	10	●		●	●				Gloss, Hardness, Film building
ETERAC 7355-S-80	80	BAC	Z4 - Z6	140	4.2	14 - 19	●		●		●			Gloss, Toughness, Film building, Chemical resistance, Durability
ETERAC 7393-S-80	80	BAC	Z3- Z4	148	4.5	7 - 12	●		●					Hardness, Chemical resistance
*Cps														

*Cps

FEVE Fluoropolymer

Recommended Guidance																			Performance
Product Name	N.V. (±1%)	Solvent	Viscosity (G-H, 25°C)	OHv (Solid)	OH% (Solid)	Acid Value (Max)	Color Max (Gardner)	Tg (°C)	Fluorine Content (%)	1K	1K Baking	2K	Deco	Vehicle Refinish	Metal	MPC	Plastic	Wood	
ETERFLON 4101	60	Xylene	Z - Z3	56	1.7	1	3	35 - 40	25			●	●		●	●	●		Weather resistance, Chemical resistance, Salt spray resistance
ETERFLON 41011	60	Xylene	X - Z1	56	1.7	1	1	35 - 40	25			●	●		●	●	●		Light color
ETERFLON 4103	50	Xylene /BAC	R - W	56	1.7	1	3	35 - 40	23			●	●		●	●	●		Low N.V
ETERFLON 41165	65	MEK / BAC	T - X	56	1.7	1	3	35 - 40	25			●	●		●	●	●		High N.V
ETERFLON 41170	70	MEK / BAC	Y - Z2	56	1.7	1	3	35 - 40	25			●	●		●	●	●		High N.V
ETERFLON 41015-S-60	60	BAC	Y - Z2	56	1.7	1	3	35 - 40	25			●	●		●	●	●		Non Xylene solvent
ETERFLON 41016S	60	Mineral Spritis	V - Y	40	1.2	5	3	25 - 35	25			●	●		●	●	●		Non Xylene solvent
ETERFLON 41083	60	PMA / MEK	X - Z3	70	2.1	2	3	28 - 35	27			●	●		●	●	●		High Fluoro content
ETERFLON 41086	60	EEP / MEK	Z - Z3	165	5.0	2	3	28 - 35	25			●	●		●	●	●		High OHv
ETERFLON 41018	60	Xylene	Y - Z2	34	1.0	3	1	30 - 38	25			●							Solar back sheet, Moisture heat resistance
ETERFLON 4102A	50	Xylene / PMA	S - V	85	2.6	1	3	25 - 35	13		●				●				Low surface tension, Anti-graffiti
ETERFLON 41041	50	Xylene /PMA	N - S	58	1.8	2	2	25 - 35	20			●	●			●	●		Low surface tension, Anti-graffiti
ETERFLON 41082	50	Xylene / PMA	O - U	72	2.2	2	3	25 - 35	25			●	●			●	●		Low surface tension, Anti-graffiti High Fluoro content
ETERFLON 4262A	55	PMA	W - Z	138	4.2	40	2	20 - 30	<5			●	●				●	●	interial, Stain reisstance
ETERFLON 4261A	56	PMA	X - Z1	109	3.3	5	2	25 - 35	<7		●				●				Low surface tension, Interial, Stain reisstance

Ester Type FEVE Fluoropolymer

Recommended Guidance																			Performance
Product Name	N.V. (±1%)	Solvent	Viscosity (G-H, 25°C)	OHv (Solid)	OH% (Solid)	Acid Value (Max)	Color Max (Gardner)	Tg (°C)	Fluorine Content (%)	1K	1K Baking	2K	Deco	Vehicle Refinish	Metal	MPC	Plastic	Wood	
ETERFLON 41211	50	Xylene / PMA	P - U	58	1.8	3	1	40 - 45	25			●	●		●	●	●		Weather resistance Ester type FEVE
ETERFLON 41212	50	Xylene / PMA	P - U	58	1.8	3 - 7	1	40 - 45	25			●	●		●	●	●		Weather resistance Ester type FEVE Pigment dispersion
ETERFLON 41213	65	PMA	Y - Z3	58	1.8	1	1	36 - 40	23			●	●		●	●	●		Weather resistance Ester type FEVE High NV

Fluoropolymer Emulsion

Recommended Guidance																
Product Name	N.V. (± 1%)	Viscosity (G-H, 25°C)	OHv (Solid)	OH% (Solid)	PH	Fluorine Content (%)	1K	1K Baking	2K	Deco	Vehicle Refinish	Metal	MPC	Plastic	Wood	Performance
ETERFLON 4311B	50	< 500	N/A	N/A	8.5 - 9.5	8	●			●						Low Fluoro content, Weather resistance
ETERFLON 4312	50	< 500	N/A	N/A	8.5 - 9.5	12	●			●						Low surface tension, Stain resistance, Weather resistance
ETERFLON 43202AF	50	< 500	N/A	N/A	8.0 - 9.5	12	●			●						Initial water resistance, Weather resistance
ETERFLON 4302AF	49	< 100	50	1.5	6.0 - 8.0	23			●	●		●	●			Weather resistance, Chemical resistance
ETERFLON 43201AF	45	< 300	40	1.2	8.0 - 9.5	16		●	●	●		●	●			Adhesion, Weather resistance, Chemical resistance
ETERFLON 43211	45	< 300	40	1.2	8.0 - 9.5	16		●	●	●		●	●			Toughness, Workability, Weather resisance, Chemical resistance

Elastic Fluoropolymer Emulsion

Recommended Guidance																
Product Name	N.V. (± 1%)	Viscosity (G-H, 25°C)	OHv (Solid)	OH% (Solid)	PH	Fluorine Content (%)	1K	1K Baking	2K	Deco	Vehicle Refinish	Metal	MPC	Plastic	Wood	Performance
ETERFLON 43271AF	50	< 500	N/A	N/A	8.0 - 9.5	8	●			●						Elastic property, Weather resistance, Stain resistance, Low temperature elongation property

Fluoropolymer Modified Acrylic

Recommended Guidance																
Product Name	N.V. (± 1%)	Viscosity (G-H, 25°C)	OHv (Solid)	OH% (Solid)	PH	Fluorine Content (%)	1K	1K Baking	2K	Deco	Vehicle Refinish	Metal	MPC	Plastic	Wood	Performance
ETERFLON 43401	50	< 500	50	1.5	7.0 - 9.0	12		●	●	●		●				Gloss, Pigment dispersion, Water resistance, Durability

Pure Acrylic Emulsion

Product Name	N.V. (± 1%)	Viscosity (Cps)	PH	MFFT (°C)	APEO Free	Performance	Recommended Guidance
ETERSOL 1111P	48	< 500	8.5 - 10.0	18	●	Gloss, Adhesion	Exterior paint
ETERSOL 11123	48	< 500	7.0 - 8.0	19	●	Gloss. Wet abrasion resistance, Dirt pick-up resistance	Exterior gloss and semi-gloss paints
ETERSOL 1113AF	48.5	200 - 2000	8.0 - 9.0	25	●	Stain resistance, Water and alkali resistance, Pigment dispersion, Durability	Exterior paint
ETERSOL 1118	48	300 - 1500	9.0 - 10.0	23		Water and alkali resistance, Pigment dispersion, Durability	Exterior paint
ETERSOL 1118-1	50	300 - 1500	8.0 - 9.0	23		Water and alkali resistance, Pigment dispersion, Durability	Exterior paint
ETERSOL 1118AF	48	100 - 800	8.5 - 9.5	23	●	Water and alkali resistance, Pigment dispersion, Durability	Exterior paint
ETERSOL 1118AF-4	48	20 - 400	8.5 - 9.5	23	●	Better initial stage water and alkali resistance, Pigment dispersion, Durability	Exterior paint
ETERSOL 1135-5	48	< 500	8.0 - 9.5	15	●	Water whitening resistance, Durability	Stony paint
ETERSOL 1137	45	< 300	8.0 - 9.0	20	●	Water proofing, Adhesion on polar substrates	Water proofing paint
ETERSOL 1119	47	1000 - 4000	8.0 - 9.0	35		Gloss, Adhesion. Water, stain and alkali resistance	Exterior paint
ETERSOL 1119-1	47	1500 - 3000	8.5 - 9.5	35		Gloss, Adhesion. Water, stain and alkali resistance	Exterior paint
ETERSOL 1116A	42	< 300	7.0 - 8.5	N/A	●	PUA resion, Great weatherability, Water resistance, Adhesion, Gloss	Exterior paint

VAM Resin

Product Name	N.V. (± 1%)	Viscosity (Cps)	PH	MFFT (°C)	APEO Free	Performance	Recommended Guidance
ETERSOL 3503	56	1500 - 3500	4.0 - 5.0	22		High PVC, Pignment dispersion, EVA equal	Interior paint
ETERSOL 3503-1	56	1500 - 3500	4.0 - 5.0	22	●	High PVC, Pignment dispersion, EVA equal	Interior paint
ETERSOL 3518	58	2000 - 5000	4.0 - 5.0	0		Economic	Interior paint

Stryene Acrylic Emulsion

Product Name	N.V. (± 1%)	Viscosity (Cps)	PH	MFFT (°C)	APEO Free	Performance	Recommended Guidance
ETERSOL 6512-1	50	1500 - 3500	8.0 - 9.0	24		Gloss, Water and alkali resistance, Adhesion	Interior and exterior paint, Texture paint
ETERSOL 6515	48	500 - 1500	8.5 - 9.5	5		Water and alkali resistance, Adhesion	Interior and exterior paint, Putty primer
ETERSOL 65128	49	500 - 2000	8.0 - 9.0	17	●	Water and alkali resistance, Wet scrub resistance	Interior and exterior paint
ETERSOL 6513-2C	49	500 - 1500	8.0 - 9.5	22	●	Gloss, Water and alkali resistance, Pigment dispersion, Wet scrub resistance	Interior and exterior paint
ETERSOL 6513-2A	50	< 800	8.5 - 9.5	20	●	Gloss, Water and alkali resistance, Pigment dispersion, Wet scrub resistance	Interior and exterior paint

Modification for Cement

Product Name	Type	N.V. (± 1%)	Viscosity (Cps)	PH	MFFT (°C)	Performance	Recommended Guidance
ETERSOL 6919-4	Stryene Acrylic	55	2000 - 3500	7.0 - 8.0	0	Compability with cemet, Better water, alkali resistance, Elasticity for motar	Modification for cement
ETERSOL 6916	Pure Acrylic	49	1500 - 2500	7.0 - 8.5	5	Water, alkali resistance, Elasticity for motar	Modification for cement
ETERSOL 6924	Pure Acrylic	59	1500 - 3500	7.0 - 8.5	0	High Solid, Water, alkali resistance, Elasticity for motar	Modification for cement
ETERSOL 6976	Pure Acrylic	48	<= 200	8.0 - 9.0	19	Water, alkali resistance, Abrasion resistance for motar	Modification for cement

Emulsion for Elastic paint

Product Name	Type	N.V. (± 1%)	Viscosity (Cps)	Tensile Strength	Percent Elongation	PH	MFFT (°C)	APEO Free	Performance	Recommended Guidance
ETERSOL 6911	Pure Acrylic	54	2000-4500	1.07 Mpa	> 1180%	8.0 - 9.5	0		Elastic	Elastic paint
ETERSOL 6919-3A	Pure Acrylic	45	100 - 800	1.96 MPa	880%	8.0 - 9.0	0	●	Stain resistance, Elastic	Elastic paint
ETERSOL 6924-2A	Stryene Acrylic	59	75	2.55 Mpa	400%	7.5 - 8.5	10	●	Stain resistance, Scrub resistance, Durability	Elastic paint

Water-based Anti-corrosion Paint

					Recommended Guidance											
Product Name	Type	N.V. (± 2%)	Viscosity (Cps)	PH	1K	1K Baking	2K	Deco	Ink	Leather	Metal	MPC	Plastic	Wood	Performance	
ETERSOL 1182	Acrylic	42	< 700	7.0 - 8.0	●						●	●			Hardness, Adhesion, Chemical resistance	
ETERSOL 1183	Acrylic	44	< 500	9.0 - 10.0	●						●	●			Adhesion, Chemical resistance	
ETERSOL 1184	Acrylic	43	< 300	9.0 - 10.0	●						●	●			Water & Alkali resistance, Adhesion	
ETERKYD W3630	Alkyd	42	< 2600	8.5 - 9.5	●		●				●	●		●	Acrylic modified Alkyd, Corrision resistance, Gloss, Leveling, Adhesion	
ETERKYD W3630B	Alkyd	42	< 2600	8.5 - 9.5	●		●				●	●		●	Acrylic modified Alkyd, Corrision resistance, Gloss, Leveing, Adhesion, Yellowing resistance	
ETERKYD W3631	Alkyd	42	< 2600	8.5 - 9.5	●		●				●	●	●	●	Acrylic modified Alkyd, Pigment wetting, Corrision resistance, Fast drying, Gloss, Adhesion	
ETERKYD 34310	Epoxy ester	40	< 3000	8.5 - 10	●						●	●			Acrylic modified Epoxy ester, Superior corrision resistance, Humidity resistance, Fast dry, Shear stable, Primer	

Anti-finger Resins for Coil Coatings

Recommended Guidance														
Product Name	N.V. (± 2%)	Viscosity (Cps)	PH	1K	1K Baking	2K	Deco	Ink	Leather	Metal	MPC	Plastic	Wood	Performance
ETERSOL 61322	27	5 - 35	7.0 - 9.0	●						●				Corrosion resistance, Scratch resistance
ETERSOL 61323	30	5 - 45	7.0 - 9.0	●						●				Corrosion resistance, Scratch resistance

Water-reducible Acrylic Resins

Recommended Guidance															Performance
Product Name	N.V. (± 2%)	Viscosity (Cps)	PH	1K	1K Baking	2K	Deco	Ink	Leather	Metal	MPC	Plastic	Wood		
ETERWAT 1129	42	W - Z	8.5 - 9.5	●						●			●	Hardness, Adhesion, Chemical resistance	
ETERWAT 1161	51	Z4 - Z6	8.0 - 8.5		●					●				Adhesion, Chemical resistance	
ETERWAT 1161-1A	70	Z2 - Z3	8.0 - 8.5		●					●				Water & Alkali resistance, Adhesion	

Water-based Resin for Ink

Recommended Guidance															Performance
Product Name	N.V. (± 2%)	Viscosity (Cps)	PH	1K	1K Baking	2K	Deco	Ink	Leather	Metal	MPC	Plastic	Wood		
ETERSOL 1548-75	45	< 200	7.0 - 8.0	●				●						Gloss, Hardness, Adequate slip, Rub resistance	
ETERSOL 6805	49	500- 1500	7.5 - 8.5					●						Gloss, Water resistance, Transfer and printability	
ETERSOL 6805-1	50	600-1000	7.5 - 8.5					●						Gloss, Water resistance, Transfer and printability	

Emulsions for Leather Processing

Recommended Guidance															Performance
Product Name	N.V. (± 2%)	Viscosity (Cps)	PH	1K	1K Baking	2K	Deco	Ink	Leather	Metal	MPC	Plastic	Wood		
ETERSOL 1928-2	37	10 - 100	6.0 - 7.0	●					●					Hard, Self-crosslinking, Abrasion resistance	
ETERSOL 1921-3	40	100	4.5 - 6.0	●					●					Mid Hardness, Self-crosslinking, Adhesion, Embossing properties, Elastic	
ETERSOL 1913	35	40	5.0 - 6.0	●					●					Soft, High elastic, Penetration, Adhesion	
ETERSOL 1922-3	37	100	6.0 - 7.0	●					●					Soft, Self-crosslink, Solvent resistance, Adhesion, Embossing properties, Low temp. flexible	
ETERSOL 1932-3	37	100 - 350	5.5 - 7.0	●					●					Soft, Self-crosslink, Adhesion, Solvent resistance	

Water-based Wood Coatings

Recommended Guidance												
Product Name	Type	N.V. (± 1%)	Viscosity (Cps)	PH	MFFT(°C)	1K	2K	Primer	Sanding Sealer	Clear Top Coat	Color Top Coat	Performance
ETERANE 8901-W-35	Fatty acid modified PUD	35	< 100	7.0 - 8.5	N/A	●			●	●	●	Hardness, Fast dry, Sandability
ETERSOL 1123-20S	Acrylic Nanocomposite	50	< 200	9.5 - 10.5	35	●			●	●		Fast dry, Water and alcohol resistance
ETERSOL 1126-A	Acrylic	39	< 200	7.0 - 8.0	35	●			●	●	●	Hardness, Chemical resistance
ETERSOL 1126H	Acrylic	41	< 200	7.0 - 8.0	24	●			●	●	●	Fast dry, Gloss, Sandability, Water resistance, UV layer Adhesion
ETERSOL 1135-9	Acrylic	48	< 200	7.5 - 8.5	35	●			●		●	Water resistance, Pigment dispersion, Suggested use with ETERSOL1160-B base coat and primer for wood coatings.
ETERSOL 1160-B	Stryene Acrylic	41	< 200	7.0 - 8.0	50	●			●		●	Hardness, Sandability, Blocking resistance Suggested use with 1135-9 as base coat, putty and edge banding coats
ETERSOL 11385	Acrylic	44	< 400	6.0 - 7.0	47	●		●	●	●	●	Hardness, Sandability, Gloss, Swollen resistance, Isolation properties against pine wood ingredients and olein
ETERSOL 11387	Acrylic	45	< 800	1.5 - 2.5	31	●		●	●	●	●	Hardness, Sandability, Gloss, Water resistance, Isolation property
ETERSOL 1156S	Acrylic	43	< 500	7.5 - 8.5	50	●			●	●		Hardness, Sandability, Gloss, Swollen resistance, Water resistance, Adhesion on PVC, general wood
ETERSOL 11563	Acrylic	42	< 200	7.0 - 8.0	45	●		●	●	●	●	Fast dry, Gloss, Sandability, Swollen resistance, Water resistance, Blocking resistance
ETERSOL 1194-D	Acrylic polyol	43	< 200	7.5 - 9.0	N/A	●				●	●	OHV= 60 mgKOH/g, on Solid, Hardness, Scratch, and Abrasion resistance, Water resistance, Matting paint
ETERSOL 1194-1	Acrylic polyol	46	100 - 1000	5.5 - 7.0	N/A		●			●	●	OHV= 110 mgKOH/g , on Solid, Hardness, Scratch, and Abrasion resistance, Water resistance, Glossy paint
ETERSOL 1195-2	Acrylic polyol	46	200 - 1000	6.0 - 7.0	N/A		●			●	●	OHV= 130 mgKOH/g , on Solid, Hardness, Scratch, and Abrasion resistance, Water resistance, Glossy paint
ETERWAT 1140	Water-Reducible Acrylic	42	*Z1 - Z3	8.5 - 9.5		●	●	●	●			Isolation property, Swollen resistance, Sandability
ETERANE 8916A	PUD	35	< 300	7.0 - 8.5	< 5	●			●	●	●	Recommend combine with Acrylic resins Water resistance, Gloss, Flexible, Durability
ETERANE 8925	PUD	35	< 1000	7.0 - 8.0	< 5	●			●	●	●	Recommend combine with Acrylic resins Alkali resistance, Gloss, Durability
ETERANE 89452	PUA	41	< 200	7.0 - 8.0	< 5	●			●	●	●	Gloss, Sandability, Mar resistance, Water resistance, Blocking resistance

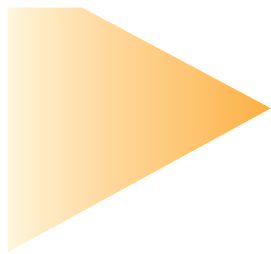
*Gardener

Polyurethane Dispersion

Recommended Guidance																
Product Name	Type	N.V. (±1%)	NMP (%)	PH	Tensile Strength (kg/cm2)	Elongation (%)	100% Modulus (kg/cm2)	Shore A Hardnees	Viscosity (Cps)	Leather	Ink	Textile	Metal	Plastic	Wood	Performance
ETERANE 8911A	Polyether	40	---	7.0 - 8.0	141	500	41	< 300	< 300	●	●	●		●		Middle hardness, Hydrolysis resistance
ETERANE 89120	Polyether	50	---	7.0 - 8.5	50	1500	10	< 800	< 800	●	●	●				Soft, Elasticity, Hydrolysis resistance, Cationic resin compatible.
ETERANE 89129	Polyether	40	---	7.0 - 9.0	250	550	75	100 - 600	100 - 600	●	●	●		●	●	Middle hardness, Gloss, Hydrolysis resistance.
ETERANE 89138	Polyether	40	---	6.0 - 8.5	30	2000	10	< 300	< 300	●	●	●		●		Elastic, Hydrolysis resistance, Competible with acrylic emulsion.
ETERANE 89191	Polyether	30	---	6.0 - 8.0	40	1800	15	< 200	< 200	●	●	●	●			Soft, Elasticity, Hydrolysis resistance, Adhesion on leather and textile.
ETERANE 8916A	Polyether	35	6.5	7.0 - 8.5	180	450	90	< 300	< 300	●	●		●	●	●	Middle hardness, Gloss, Flex resistance.
ETERANE 89216	Polyether	35	---	7.0 - 8.5	180	450	90	< 200	< 200	●	●	●	●	●	●	The free solvent version of 8916A.
ETERANE 8918	Polyether	38.5	8.5	7.0 - 9.0	170	305	59	< 900	< 900	●	●		●		●	Middle hardness, Gloss, Flex resistance
ETERANE 8925	Polyether	35	7.2	7.0 - 8.0	281	220	240	< 500	< 500	●	●		●	●	●	Hardness, Gloss.
ETERANE 8925B	Polyether	35	7.2	7.0 - 8.0	300	200	256	< 300	< 300	●	●		●	●	●	Excellent hardness and gloss
ETERANE 89252	Polyether	35	---	7.0 - 9.0	450	250	150	< 300	< 300	●	●		●	●	●	The free solvent version of 8925.
ETERANE 89208A	Polyether	35	---	6.0 - 8.5	270	350	110	< 300	< 300	●	●			●		Middle hardness, Gloss, Flex resistance, Heat resistance.
ETERANE 89234BA	Polyether	40	295	6.0 - 8.5	56	1800	10	< 500	< 500	●	●	●				Soft, Elasticity,
ETERANE 89297	Polyether	40	---	6.0 - 8.5	250	1100	26	< 500	< 500	●	●	●		●		Soft, Elasticity, Flex resistance, Adhesion on PVC.
ETERANE 89298	Polyether	40	---	6.0 - 8.5	220	1200	26	< 500	< 500	●	●	●		●		Soft, Elasticity, Flex resistance.
ETERANE 89334	PC	35	*DMM 10%	7.0 - 9.0	45	1000	16	< 500	< 500	●	●		●		●	Middle hardness. Excellent hydrolysis resistance, Flexibility, Anti-abrasion
ETERANE 89336	PC	35	*DMM 10%	7.0 - 9.0	295	300	250	< 500	< 500	●	●		●		●	Excellent hardness. Excellent hydrolysis resistance, Flexibility, Anti-abrasion
ETERANE 89400BA-1	PC / Polyether	40	---	5.0 - 7.0	---	---	---	< 500	< 500	●	●	●		●		Self-matting, Soft touch
ETERANE 89411	PC / Polyether	40	---	7.0 - 9.0	300	1500	20	< 500	< 500	●	●	●		●		Soft, Elasticity, Hydrolysis resistance, Cationic resin compatible.
ETERANE 8970-1	Polyether	30	4.3	7.0 - 8.0	96	1050	14	< 500	< 500	●		●				Excellent hydrolysis resistance, Flexibility, Cationic resin compatible

Common Solvent Properties

Name	Abbreviation	Molecular Weight	Density	Boiling Point	Flash Point	Evaporation Rate	CAS#
Acetone	ACE	58.08	0.7906	56.12	-17.8	5.7	67 - 64 - 1
Cyclohexanone	CYC	98.14	0.9478	155.65	44	0.3	108 - 94 - 1
Toluene	TOL	92.13	0.8669	110.625	4.5	1.9	108 - 88 - 3
Xylene	XYL	106.13	0.87	135-143.3	5	0.7	1330 - 20 - 7
Methylenechloride	MC	84.94	1.326	39.8	34	29	75 - 09 - 2
Methyl Chloroform	Methyl Chloroform	133.41	1.442	74	-	1.5	71 - 55 - 6
2-Nitropropane	2-Nitropropane	89.1	0.992	120.3	39	1.2	79 - 46 - 9
Ethyl Acetate	EAC	88.1	0.9006	77.114	-4	4.1	141 - 78 - 6
Butyl Acetate	BAC	116.16	0.8807	126.114	27	1	123 - 86 - 4
Ethanol	EA	46.07	0.7893	78.32	14	1.7 - 1.9	64 - 17 - 5
n-Butyl Alcohol	NBA	74.12	0.8097	117.5	35	0.5	71 - 36 - 3
Acetic acid methyl ester	Acetic acid methyl ester	74.08	0.933	59 - 60	-	10.4	79 - 20 - 9
Acetic acid-n-propyl ester	Acetic acid-n-propyl ester	102.14	0.88	101.6	27.5	2.3	109 - 60 - 4
Isopropyl Acetate	i-PAC	102.13	0.87	89	-10	4.35	108 - 21 - 4
n-Amyl acetate	n-Amyl acetate	130.18	0.879	130	25	0.87	628 - 63 - 7
Isoamyl acetate	Banana Oil	130.18	0.88	143	25	-	123 - 92 - 2
Butyl Lactate	Butyl Lactate	146.18	0.94 - 0.984	188	71.1	0.06	58164 - 88 - 8
Ethylene glycol monoethyl ether acetate	CAC	132.16	0.97	156.3	51	0.2	111 - 15 - 9
Isobutyl Acetate	i-BAC	116.15	0.87	118.3	17.8	1.52	110 - 19 - 0
Methanol	METH	32.04	0.7913	64.65	12	6	67 - 56 - 1
Ether Acetate	NPA	60.1	0.8035	97.2	23	1	71 - 23 - 8
Isopropyl alcohol	IPA	60.09	0.7854	82.5	11.7	2.05	67 - 63 - 6
Isobutyl alcohol	IBA	74.12	0.802	107	-	0.83	78 - 83 - 1
Ethylene Glycol Monobutyl Ether	ECS	90.12	0.93	134.0 - 136.0	45	0.3	110 - 80 - 5
Ethylene Glycol Monobutyl Ether	BCS	118.17	0.9	169.0 - 172.5	61	0.06	111 - 76 - 2
MIXED DIBASIC ESTERS	DBE	-	1.09	196.0 - 225.0	-	0.007	-
Propylene glycol monomethyl ether acetate	PMA	132.2	0.97	140.0 - 150.0	45	0.4	80 - 55 - 7



Name	Abbreviation	Molecular Weight	Density	Boiling Point	Flash Point	Evaporation Rate	CAS#
Petroleum ether	MSO	-	0.625 - 0.660	30 - 120	<0	-	8032 - 32 - 4
Methyl isobutyl Ketone	MIBK	100.16	0.804	118	22.8	1.45	108 - 10 - 1
Isophorone	3, 5, 5-trimethyl-2-cyclohexen-1-one	138.21	0.9215	215.2	96	0.03	4098 - 71 - 9
DIETHYL KETONE	Diethyl Ketone	86.1	0.82	102	-	2.8	96 - 22 - 0
Methyl propyl ketone	Methyl propyl ketone	96.08	0.81	103	-7.2	2.5	107 - 87 - 9
High-Flash Aromatic Naphtha-200	M.S.	-	-	140 - 200	33	0.18	-
Normal heptane	Normal heptane	100.21	0.68	98.4	-	0.2	142 - 82 - 5
Normal octane	Normal octane	114.23	0.7028	125.6	13	0.2	111 - 65 - 9
Benzene	Benzene	78.11	0.8737	79.6	-11.1	5	71 - 43 - 2
Solvesso100	S-100#	120.19	0.87	157 - 174.0	42	0.19	64742 - 95 - 6
Solvesso150	S-150#	-	-	188 - 210.0	66	0.04	-
Solvesso200	S-200#	-	-	226 - 279.0	103	0.04	-
Naphtha	Naphtha	-	0.78 - 0.97	120 - 200	-	-	8030 - 30 - 6
Turpentine oil	Turpentine oil	136.23	0.845 - 0.858	150 - 170	30 - 37	4.5	8006 - 64 - 2
Limonene	Limonene	136.23	0.86	160 - 190	-	-	138 - 86 - 3
Styrene	SM	104.14	0.9059	145	32.3	-	100 - 42 - 5
Ethyl 3-Ethoxypropionate	EEP	146.19	-	165 - 172	58	0.12	-
Methyl Amyl Ketone	MAK	114.9	-	147 - 153.5	39	0.4	-
Diisobutyl ketone	DIBK	142.24	-	163 - 176	1180F	0.17	-
Carbitol	Carbitol	134.17	0.99	201.9	94	<0.01	111 - 90 - 0
Butoxydiglycol	Butoxydiglycol	162.2	0.9553	230.4	110	<0.01	693 - 21 - 0
Butyl carbitol acetate	Butyl carbitol acetate	204.26	0.98	246.8	-	<0.01	124 - 17 - 4
Carbitol acetate	Carbitol acetate	176.51	1.01	217.4	-	<0.01	112 - 15 - 2
Diacetone Alcohol	DAA	116.15	0.94	166	9	0.15	123 - 42 - 2
Ethyl Methyl Ketone	MEK	72.1	0.805	79.6	-7.2	4.65	78 - 93 - 3

1. PU paint

$$\text{PU hardener} = \frac{\text{OHv(Liquid)}}{561} \times \frac{4200}{\text{NCO}\%} \times \frac{\text{NCO}}{\text{OH}}$$

$$\text{NCO}\% = \text{OH}\% \times \frac{\text{Main resin}}{\text{Hardener}} \times 2.47 \times \text{crosslinking density}$$

2. OH Value

C: OHv mass percent

D: OHv equivalent weight

E: OH value

$$C = \frac{E}{33} \quad D = \frac{56100}{E}$$

$$D = \frac{1700}{C}$$

3. Pigment Volume Concentration

$$PVC(\%) = \frac{\frac{\text{Pigment Weight}}{\text{Pigment Density}} + \frac{\text{Filler Weight}}{\text{Filler Density}}}{\frac{\text{Pigment Weight}}{\text{Pigment Density}} + \frac{\text{Filler Weight}}{\text{Filler Density}} + \frac{\text{Paint Weight}}{\text{Paint Density}}}$$

4. Theoretical formula of Polyamide and Epoxy resin

Polyamide volume (100 g epoxy resin) =
epoxy volume X active hydrogen equivalent weight (polyamide equivalent weight)

5. Temperature converter

$$T(^{\circ}\text{F}) = 9/5 (T(^{\circ}\text{C}) + 32)$$

$$T(^{\circ}\text{C}) = \frac{5}{9} (T(^{\circ}\text{F}) - 32)$$

6. VOC calculation

$$VOC + V \times P \times 10^3$$

V= Volatile weight portion in paint

P= paint density at 23 °C, unit g/ml

Note

[illegible]