



Long Oil - Medium Oil - Short Oil Alkyd Resins

Alkyd resins are produced by reacting a dibasic acid with a polyol and drying oil. The oil length of an alkyd resin is defined as the number of grams of oil used to produce 100 grams of resin. As the oil length of the resin increases, generally the viscosity decreases, the hardness of the film decreases, film flexibility increases and water resistance is reduced.

Alkyd resin products are suitable for a wide range of paint products with applications in decorative, maintenance and contractor paints where excellent gloss and good durability are required. Medium oil alkyds are easily air dried and are readily soluble in aliphatic solvents. Short oil alkyds are typically oven dried with the solubility limited to aromatic and other non-aliphatic solvents. Coatings systems manufactured using these resins are used in air drying primers for wood or metal, machinery enamels, industrial paints, traffic paints, floor enamels, and low bake finishes.

THIBAUT & WALKER LONG OIL ALKYDS

T&W Resin	Solvent	NV Wt%	Viscosity	Acid No.	% PA (Min)	Oil	Description
300-60M	MS	60	U-W	10	23	Soya	Meets TT-R-266D, Type I, Class B
300-70M	MS	70	Z1-Z3	10	23	Soya	Meets TT-R-266D, Type I, Class A
303-50MD	MS	50	H-J	10	20	Soya	Contains driers: Interior/Exterior
305-70M	MS	70	Y-Z1	10	23	Soya	Vinyl compatible, TT-R-266D, Type I, Class C, Solvent M
305-70X	Xylol	70	O-S	10	23	Soya	Vinyl compatible, TT-R-266D, Type I, Class C, Solvent X
306-70M	MS	70	U-V	5	24	Soya	Low viscosity 307-70M
307-70M	MS	70	Y-Z	10	23	Soya	Low viscosity 300-70M
310-50M	MS	50	T-V	10	23	Soya	Non-yellowing/non-pen enamels
313-70M	MS	70	Z-Z2	8	24	Soya	High viscosity
328-90M	MS	90	R-V	10	12	Linseed	Flexible, exterior coatings
329-60M	MS	60	T-W	10	23	TOFA	Tall Oil Fatty Acid 300-60M
329-70M	MS	70	Z4-Z6	10	23	TOFA	Tall Oil Fatty Acid 300-70M, TT-R-266D, Type V
332-60M	MS	60	X-Z	10	23	Soya	High viscosity 300-60M, Arch enamels
354-55M	MS	55	T-W	10	23	Soya	Lower solids 332-60M, easier handling
362-60MO	OMS	60	V-W	10	24	Soya	General purpose, odorless
362-70MO	OMS	70	Z4-Z5	7	24	Soya	Higher solids 362-60MO
363-90M	MS	90	W-Y	10	PA IPA	Mixed	Flexible, exterior stains, latex modifier
366-60M	MS	60	T-V	10	23	Linseed	TT-R-266D, Type II, Class B
366-70M	MS	70	Z-Z2	10	23	Linseed	TT-R-266D, Type II, Class A
367-55MO	OMS	55	X-Z	10	23	Soya	Odorless 332-60M, lower viscosity
368-55M	MS	55	W-X	10	23	TOFA	Tall Oil Fatty Acid 354-55M

372-60X	Xylol	60	Z2-Z4	5	---	Linseed	Fast dry linseed alkyd
377-60M	MS	60	W-Y	10	23	TOFA	Higher viscosity 329-60M
483-60M	MS	60	Z-Z2	10	23	Soya	Higher viscosity 332-60M
601-70M	MS	70	R-V	36	---	Mixed	Oxidizing binder, defloccs, wets pigments
XPR36-11	MS	80	Z3-Z4	10	24	Soya	VOC 300-70M, similar drying
XPR16-25	MS	90	Z1-Z3	10	IPA	Soya	VOC 300-70M, similar drying
XPR36-17	A100	65	Z-Z3	10	23	Safflower	Excellent color retention
XPR36-18	MS	80	Z3-Z4	10	23	Sunflower	VOC 300-70M, superior drying

Solvent: MS - Mineral Spirits / OMS - Odorless Mineral Spirits / A100 - Aromatic 100



THIBAUT & WALKER MEDIUM OIL ALKYDS

T&W Resin	Solvent	NV Wt%	Viscosity	Acid No.	% PA (Min)	Oil	Description
400-43M	LOMS	43	X-Y	10	34	Soya	High drink, Low Odor MS, ease of handling
400-50M	MS	50	Z4-Z5	10	34	Soya	High viscosity improves performance, economy
402-50M	MS	50	X-Z	10	30	Linseed Soya	Meets TTR-266D, Type III, all purpose
407-55M	MS	55	Y-Z1	10	26	Soya	All purpose, marine coatings
415-50MO	OMS	50	Z1-Z3	10	26	Soya	General purpose
440-50M	MS	50	X-Z	10	30	Soya	Meets TTR-266D, Type IV, all Soya
449-50V	VMP	50	N-P	8	33	Soya	Traffic paints, drum enamels
449-60V	VMP	60	Z3-Z5	8	33	Soya	Meets NJ DOT Type 4, drum enamels
451-50M	MS	50	X-Z	10	30	TOFA	Meets TTR-266D, Type VI, all Tall Oil Fatty Acid
465-50M	MS Xylol	50	Z4-Z5	10	36	TOFA	High drink, TOFA version of 489-50M
471-50V	VMP	50	Z1-Z3	10	34	Soya	Low viscosity 604-50V
473-50M	MS	50	Z1-Z3	10	34	Soya	Higher viscosity 440-50M
477-50M	MS	50	Z4-Z5	10	35	TOFA	TOFA 400-50M
478-50MO	OMS	50	Z1-Z3	10	26	TOFA	TOFA 415-50MO
489-50M	MS Xylol	50	Z4-Z5	10	33	Soya	Higher viscosity 400-50M
492-45MO	MS	45	C-F	7	31	Soya	Meets TT-V109C, contains driers
493-50V	VMP	50	X-Z	10	30	Soya Linseed	Traffic vehicle, fast dry 402-50M type
494-55M	Blend	55	Z3-Z5	13	PA IPA	Mixed	TT-R-266D, Type II, Class B
496-43M	MS	43	U-X	10	32	Soya	Better compatibility 400-50M type
604-50V	VMP	50	Z1-Z3	10	33	Soya	High viscosity traffic, drum enamels
605-60T	Toluol	60	D-H	8	30	Soya	Meets NJ DOT type 3A, fast dry traffic
615-45V	VMP	45	Z1-Z3	10	34	Soya	Fast drying traffic, metal, primer
618-50M	MS	50	W-Y	10	PA IPA	Mixed	Mixed oils, improved flexibility
625-72A	A100	72	Z1-Z3	8	22	Mixed	Rosin modified

Solvent: MS - Mineral Spirits / OMS - Odorless Mineral Spirits / A100 - Aromatic 100 / VMP - VM&P Naphtha



THIBAUT & WALKER SHORT OIL / HIGH SOLIDS ALKYDS

T&W Flat	Solvent	NV Wt%	Viscosity	Acid No.	% PA (Min)	Oil	Description
486-30P	SOL 140	30	T-W	10	31	Soya	Low odor flat, maximum non-penetrating
499-30M	MS	30	X-Z	10	33	Soya	High viscosity economical MS version
608-30M	MS	30	U-V	10	36	TOFA	Non-penetrating flat, high pigment
610-35M	MS	35	W-Y	10	36	TOFA	Medium viscosity, excellent non-penetrating
619-30M	MS	30	X-Z	10	36	Soya	Non penetrating flat, high drink
701-35MO	OMS	35	Z4-Z6	10	34	TOFA	Excellent non-penetrating
703-35MO	OMS	35	V-X	10	29	TOFA	Odorless flat, good non-penetrating
707-30MO	OMS	30	Z-Z2	10	34	TOFA	Low viscosity 701-35MO
708-40M	MS	40	Z-Z2	10	35	TOFA	Interior flats, shakes stain and paint
709-40M	MS	40	X-Z	25-35	37	TOFA	Non-penetrating flats, shake and shingle
T&W Baking	Solvent	NV Wt%	Viscosity	Acid No.	% PA (Min)	Oil	Description
501-50XV	Xylol VMP	50	Z5-Z7	10	40	TOFA	High drink, color retentive
533-50XV	Xylol VMP	50	Z5-Z6+	10	40	TOFA	Standard baking finishes
537-50X	Xylol	50	Z-Z2	10	40	TOFA	Xylol 501-50X
543-50G	Solvent G	50	Z4-Z5	10	40	Soya	Slow solvent, roller coating
543-45G	Solvent G	45	Y-Z	10	40	Soya	Lower solids 543-50GM
544-50X	Xylol	50	X-Z	10	40	TOFA	Chain stopped, air dry or bake
545-50X	Xylol	50	N-P	10	40	TOFA	Low temperature bake, grinding base
547-50X	Xylol	50	W-Y	10	40	TOFA	Low temperature bake, electrostatic spray
564-50T	Toluol	50	X-Z	15	40	Soya	Lower solids 564-60T
564-60T	Toluol	60	Z5-Z6	15	40	Soya	Hot line traffic, very fast dry
616-60T	Toluol	60	Z5-Z6	15	40	TOFA	TOFA 563-60T
620-60T	Toluol	60	Z2-Z4	15	40	TOFA	Lower viscosity 616-60T

T&W High Solids	Solvent	NV Wt%	Viscosity	Acid No.	% PA (Min)	Oil	Description
574-75TK	Toluol MPK	75	Z1-Z3	15	---	Soya	Fast set, low temperature bake, drum enamels
800-80TK	Toluol MPK	80	Z1-Z3	10	---	Soya	Quick dry enamels, primers, steel coatings, traffic paints
801-75TK	Toluol MPK	75	Z1-Z3	18	---	TOFA	Rosin ester 574-75TK, fast tack free, air dry, good flexibility, similar to rosin/phenol
802-70	Toluol nButanol	70	X-Z	18	---	TOFA	Lower solids 802-75
802-75	Toluol nButanol	75	Z3-Z4	18	---	TOFA	Rosin ester, force or air dry, dip or spray
803-75	Xylol nButanol	75	Z3-Z4	18	---	TOFA	Fast air dry metal coating, excellent chemical resistance
805-80	A100	80	Z5-Z7	10	---	Soya	High solids, dry dip applications
806-80	A100	80	Z5-Z7	15	---	TOFA	Rosin ester, fast dry dip applications
810-80	A100 MAK	80	Z3-Z5	10	---	Soya	Similar to 800-80TK, flash point >100 F

T&W 100% Solids	Solvent	NV Wt%	Viscosity	Acid No.	% PA (Min)	Oil	Description
343-100	---	100	Z-Z3	10	17	Soya	Latex modifier
345-100	---	100	X-Y	15	12	Soya	IPA, fast dry
349-100	---	100	Z-Z4	15	IPA	Soya	Latex modifier
360-100	---	100	Z-Z9+	10	IPA	Soya	Low VOC, flexible, exterior paints
379-100	---	100	Y-Z	9	IPA	Linseed	Fast dry, exterior stains

Solvent: MS - Mineral Spirits / OMS - Odorless Mineral Spirits / A100 - Aromatic 100 / SOL 140 - Solvent 140 / Solvent G - Aromatic 150 / MAK - Methyl amylKetone / MPK - Methyl propylKetone



Modified Alkyd Resins

Alkyd resins are frequently modified to produce specific performance properties and finished film characteristics. Modifications can provide resin coating systems which yield more durable and more rapidly drying films and controlled flexibility, durability and hardness of the dried film.

Silicone Modified Alkyds: Silicone alkyds are a specialized series of products used to formulate coatings with excellent durability, toughness, abrasion resistance and resistance to cracking caused by severe temperature changes. These resins are used in maintenance paints for steel and concrete, highest quality maintenance finishes, exterior decorative and marine paints, coatings on brass and aluminum, and heat resistant paints. Other modifiers such as rosin or epoxy can be used instead of silicone to produce specialized types of oxidizing resins.

THIBAUT & WALKER OXIDIZING ALKYDS

T&W Resin	Solvent	NV Wt%	Viscosity	Acid No.	Modifier	Oil	Description
346-60M	MS	60	V-Y	10	Silicone	Soya	Meets TT-E-490C, TTE-1593B
348-70A	A-100	70	U-W	10	Silicone	Soya	Extremely durable
420-50M	MS	50	W-Y	14-20	Rosin Phenol	Mixed	Phenolated medium oil, abrasion resistant
439-50M	MS	50	T-W	10-18	Rosin	Soya Linseed	General purpose, enhanced gloss, dry
441-50M	MS	50	I-K	10	Epoxy	Soya	Epoxy ester, fast dry, toughness, adhesion, chemical resistance
442-50M	MS	50	L-N	10	Epoxy	Linseed	Linseed 441-50M
475-50M	MS	50	T-V	10	Rosin	TOFA	Enhanced gloss, dry, hardness
549-38M	MS	38	Q-T	25-35	Rosin	TOFA	Spackle compounds
566-45M	MS	45	Z1-Z3	20	Rosin Ester	TOFA	Fast dry drum, toy enamel, tannin stain blocker, wood sealer
567-50VT	VMP Toluol	45	X-Y	20	Rosin Ester	TOFA	Stain blocker, drum, toy enamel, low cost alternative to phenolated alkyds
614-45M	MS	45	Z1-Z4	26	Rosin	Mixed	Enhanced dry, gloss
650-60M	MS	60	Z1-Z3	10	Epoxy	TOFA	High solids 441-50M/442-50M
LV-3045-4	MS	45	A5-A	5	Hydrocarbon	Drying	Aluminum vehicle, interior or exterior

Solvent: MS - Mineral Spirits / A100 - Aromatic 100 / VMP - VM&P Naphtha



Modified Alkyd Resins

Alkyd resins are frequently modified to produce specific performance properties and finished film characteristics. Modifications can provide resin coating systems which yield more durable and more rapidly drying films and controlled flexibility, durability and hardness of the dried film.

Urethane Modified Alkyds: Urethane alkyds applications include clear wood varnishes, floor paints, clear sports floor coatings, industrial primers and finishes, inks, commercial vehicle finishes, decorative paints for external use and upgrading long oil alkyds. T&W urethane alkyds are usually modified with TDI. A variety of solvents including mineral spirits, xylene and VM&P can be used for these products.

THIBAUT & WALKER OIL MODIFIED URETHANE ALKYDS

T&W Resin	Solvent	NV Wt%	Viscosity	Acid No.	Oil	Description
331-60M	MS	60	Z-Z2	3	Linseed	Fast dry, abrasion resistant, gym finish
340-50M	MS	50	Z-Z2	3	Linseed	Fast hard dry, economical gloss finish
370-60X	Xylol	60	R-U	3	Linseed	Fast dry, good abrasion resistance, industrial enamels, aerosols
371-45M	MS	45	T-V	3	Soya	Maximum capability with alkyds(496-45M)
381-45XVZ	Xylol VMP PM	45	S-U	2	TOFA	Fast dry, excellent abrasion and water resistance
385-55M	MS	55	W-X	3	Soya	Excellent stability, satins
390-50M	MS	50	Z1-Z3	3	Soya	Economical flats, satins
401-65XB	Xylol nButanol	65	Z3-Z5	2	Linseed	Fast dry, excellent gloss, abrasion resistance
429-45M	MS	45	R-T	3	Linseed	Same as 429-50M, lower solids, easier handling
429-50M	MS	50	Z1-Z3	3	Linseed	Excellent hardness, fast dry, economical
432-50M	MS	50	Y-Z2	3	Soya	Excellent water, detergent, chemical resistance, satins or flats
458-60M	MS	60	Z-Z2	3	Soya	Enamels and floor finishes
469-50X	Xylol	50	Z1-Z3	3	Linseed	Fastest dry, hardness and abrasion resistance, aerosols and traffic markers
472-42M	MS	42	O-R	3	Soya	Polyurethane containing ASA
495-50M	MS	50	Z1-Z3	3	Soya	Excellent water, detergent, chemical resistance, satins or flats
855-80M	MS	80	Z1-Z3	3	Mixed	High solids urethane
LV3019-45MD	MS	45	B-D	6	Soya	Urethane varnish with driers, ready to use

Solvent: MS - Mineral Spirits / PM - Propylene Glycol Monomethyl Ether / VMP - VM&P Naphtha