Polykyd® (PT-kyd®) - alkyd resins - pure drying oil modified

Product Code	NVC (%)	Solvent	Max. acid value	Typical viscosity @ 25ºC (poise)	Oil content (%)	Type	Features/ application(s)
Medium oil length							
MA301	65	Xylene	12	40	51	TOFA	Fast dry and good hardness development. Good durability and color retention. Suitable for air dry and stoving formulation. Suitable Transport and Industrial application.
MA304	55	White Spirit	12	200	51	TOFA	High viscosity type. Fast dry and good hardness development. Good durability and color retention. Suitable for air dry and stoving formulation. For Transport and stoving finishes.
MA306	55	White Spirit	12	200	53	Linoleic	Fast dry and good mechanical properties. Suitable for air dry and stoving formulation. For general economy industrial and transport finishes.
MA307	60	White Spirit	10	600	50	Linoleic	High viscosity, fast dry and good mechanical properties. For air dry and stoving finishes. Suitable for transport refinishing, also useful in undercoat and semi-gloss enamel.

Polykyd® (PT-kyd®) - alkyd resins - non-drying oil modified

Product Code	NVC (%)	Solvent	Max. acid value	Typical viscosity @ 25ºC (poise)	Hydroxyl value	Oil content (%)	Type	Features/ application(s)
Short oil length								
SA207	70	Xylene	10	400	85	38	Saturated fatty acid	Fast dry and excellent extender wetting performance. Suitable for NC and PU low gloss/matt wood finishes.

SA222	70	Xylene	10	700	85	40	vegetable fatty acid	Suitable for NC and PU wood coating sealer and topcoat formulation.
SA228	70	Xylene	10	40	99	28	Synthetic fatty acid	Good yellowing and chemical resistance. Fast dry with hardness development. Suitable for AC, NC and PU formulation. Also suitable for stoving application.
SA238	80	Xylene	10	1000	115	33	Synthetic fatty acid	Good compatibility with wide range of resin. Suitable for pigment paste formulation. Suitable for industrial and wood coating application. Can be used in auto-refinish clearcoat.
SA241	70	Xylene	10	70	99	33	Special fatty acid	Good yellowing and chemical resistance. Suitable for AC, NC and PU formulation.
SA245	70	Xylene	10	550	99	33	Saturated fatty acid	Fast dry and high gloss finishes. Suitable for AC, NC and PU formulation in wood coating application.
SA253	70	Xylene	16	40	115	33	Saturated fatty acid	Good gloss and film build. Excellent plasticizing effect in NC system. Good pigment wetting. Suitable for all wood finishes formulation.
SA256	70	Xylene	10	600	119	34	Coconut fatty acid	Good gloss and mechanical properties. Suitable for all type of wood finishes application.

Polykyd® (**PT-kyd®**) - alkyd resins - pure drying oil modified

Product Code	NVC (%)	Solvent	Max. acid value	Typical viscosity @ 25ºC (poise)	Hydroxyl value (solid)	Oil content (%)	Type	Features/ application(s)
Short oil length								
SA216	80	Xylene	10	50	75	52	Mix vegetable fatty acid	Due to high compatibility with wide range of alkyd, suitable for grinding resin.

SA227	70	Xylene	10	1000	115	35	Linoleic	High viscosity and fast dry. Suitable for sealer and topcoat wood finishes.
SA229	70	Xylene	10	600	135	40	TOFA	Fast dry, good chemical and abrasion resistance. Suitable for topcoat and sealer in wood coating finishes.

Polynate® (PT-nate®) - oil free polyester resins

Product Code	NVC (%)	Solvent	Max. acid value	Typical viscosity @ 25ºC (poise)	Hydroxyl value	Hydroxyl content (%)	Type	Features/ application(s)
PE101	60	Solvesso100/ Butyl Glycol	10	18	64	1.95	Slightly branch	For topcoat and mono-coating coil coating application. Also suitable for general Industrial stoving paint. Good flexibility and durability.
PE116	65	Solvesso100/ Butyl Glycol	10	27	50	1.5	Slightly branch	Coil and can coating for topcoat and baking coat formulation. Good flexibility and exterior durability.
PE118	65	Solvesso100/ Butyl Glycol	10	35	50	1.5	Slightly branch	Suitable for metallic basecoat and auto refinish binder formulation. General stoving paint application.
PE126	55	Solvesso150	5	40	33	1	Linear	For coil coating polyester primer and mono-coat application.
PE135	70	Solvesso100/ Butyl Glycol	10	35	63	1.9	Slightly branch	For topcoat and mono-coat coil coating application. High reactivity and high solid formulation. Also suitable for general Industrial use.
PE136	60	Solvesso100/ Butyl Glycol	10	75	26	0.8	Linear	For can white and varnish coating application. Suitable for coil coating primer and mono-coat formulation.
PE139	65	Butyl Glycol	12	30	56	1.7	Slightly branch	For coil coating topcoat formulation. High film formation Tg, good gloss and good dirt pickup performance.

PE147	70	Solvesso 100/ Butyl Glycol	10	33	59	1.8	Slightly branch	For coil coating mono-coat formulation. Flexible and good outdoor durability.
PE178	65	Solvesso 100/ Butyl Glycol	10	35	62.7	1.9	Slightly branch	For coil coating topcoat formulation with good film formation. High cured film Tg, excellent outdoor durability with good dirt pickup.
PE154	60	Solvesso 100 /Butyl glycol	10	15	62	1.9	Slightly branch	Very good hardness and flexibility. Excellent outdoor durability. Good compatibility with CAB. Suitable for OEM stoving and metallic basecoat formulation.
PE157	60	Solvesso 150/ Butyl glycol	10	100	26.5	0.8	linear	Good flexibility, adhesion, forming characteristic and low baked system. Suitable for coil and can coating formulation.
PE165	70	Solvesso100/ Xylene/Butyl glycol	10	70	62	1.9	Slightly branch	Excellent outdoor durability and flexibility. Good compatibility with CAB. Suitable for OEM stoving and metallic basecoat formulation.

Polynate® (PT-nate®) - polyester resins - 2-pack isocyanate cure

Product Code	NVC (%)	Solvent	Max. acid value	Typical viscosity @ 25ºC (poise)	Hydroxyl value	Hydroxyl content (%)	Type	Features/ application(s)
PE104	65	PMA	4	170	265	8	Highly branched	Highly reactive polyester for ambient curing with aliphatic and aromatic isocyanates. Give excellent chemical and abrasion resistance.
PE108	100	-	3	8.5	250	7.6	Linear	Compatible with most acrylics, polyesters and alkyds. It can enhance the solids and improve flexibility of stoving and 2-pack coatings.
PE115	100	-	5	250	200	5	Linear	Use to enhance the solids of stoving and 2K coatings. Good flexibility, harder than PE108.
PE124	100	-	12	15	420	12.7	Linear	Grinding resin and carrier for unsaturated polyester system.

PE151	70	Xylene	4	60	66	2	Slightly branched	Excellent flexibility with good hardness. Good adhesion to many substrates including plastic materials. Suitable for topcoat formulation of appliances and architecture finishes.
PE163	75	PMA	10	80	109	3.3	Slightly branched	Excellent abrasion and scratch performance. Good durability and flexibility. Combined with PE104 to improve solid and overall properties.
PE164	75	Xylene	12	75	162	4.9	Slightly branched	Excellent chemical and mechanical performance. Suitable for PU wood finishes. Also, suitable for wood surface on boat and parquet flooring.

Modified Polymer

Product Code	NVC (%)	Solvent	Max. acid value	Typical viscosity @ 25ºC (poise)	Type	Features/ application(s)
Polythane (PT-thane®) – urethane modified						
UA600	55	White Spirit	3	20	Linoleic	For use in floor varnishes, wood sealers and decorative paints.
UA602	100	-	5	Plastic solid	Linoleic	Good wetting properties. Suitable for oil stain formulation. Suitable for exterior wood stain application.
UA 608	55	White Spirit	3	20	Linoleic	Fast dry, excellent hardness and abrasion resistance. Suitable for floor varnishes and other wood and decorative paint.
Polysil® (PT-sil®) - silicone modified resins						
SC709	60	White Spirit	10	4	Silicone modified alkyd	Designed for high build, high durability decorative maintenance and marine finishes e.g. yacht enamels. Also suitable for rapid high temperature curing condition e.g. In-situ piping coating application.

SC707	60	White Spirit	10	4	Silicone modified alkyd	Fast true dry with good hardness development. Suitable for high build, durable decorative maintenance and marine finishes.	

Polycryl® (PT-cryl®) - acrylic resins - 2-pack isocyanate cure

Product Code	NVC (%)	Solvent	Max. acid value	Typical viscosity @ 25ºC (poise)	Hydroxyl value	Hydroxyl content (%)	Features/ application(s)
HA500	60	Xylene	10	11	90	2.7	Used in general purpose 2-pack finishes with good weatherability and chemical resistance e.g. offshore applications.
HA501	65	Xylene	10	65	110	3.3	High solids, high build acrylic with excellent durability for protective 2-pack coatings. Good adhesion to metals, plastics and composites.
HA502	60	Butyl Acetate	8	45	96	2.9	For good, all-round, high-quality performance 2K coatings. Excellent weatherability and stain resistance. Suitable for plastic substrates.
HA503	55	Xylene	10	25	56	1.7	For fast drying economical industrial coatings with good adhesion to galvanized steel.
HA508	60	Xylene	10	70	66	2	For use in refinish coating, excellent gloss, DOI and drying properties. Good for early polishing in vehicle refinish coating.
HA510	60	Xylene	10	55	33	1	Low hydroxyl, fast dry, early hardness development, good adhesion to metal and plastics. Suitable for maintenance protective work.
HA527	52	Butyl Acetate	10	50	66	2	Fast solvent release and good through dry time. Good stack-ability, long pot life. Good mar, chemical and stain resistant. Good light fastness and good compatibility with CAB, others polyol and polyisocyanate.

HA528	70	Xylene	12	230	100	3	For auto refinishing used. Good chemical and mechanical properties. Fast dry and early hardness development.
HA539	55	Butyl Acetate	10	55	49.5	1.5	Fast dry and good durability. Good compatibility with CAB. Excellent adhesion on many substrates.
HA558	70	Xylene	12	230	100	3	For general purpose auto refinishing used. Good chemical and petrol resistant. Fast dry and early hardness development.
HA582	65	Xylene	12	40	89.1	2.7	For general purpose protective coating used. Good chemical and stain resistant. Good mechanical properties and out durability. Good compatibility with universal pigment paste usage.
HA583	60	Xylene	10	35	85	2.6	Good adhesion to many substrates such as aluminum, steel, zinc and stainless steel. Good mechanical properties and good outdoor durability.
HA584	70	Xylene/ Butyl Acetate	10	100	99	3	Good hardness development. Good chemical and solvent resistant. Excellent exterior durability and mechanical properties. Excellent flow and high gloss finishes.
HA592	60	Xylene	10	30	89	2.7	General purpose protective coating formulation. Good chemical resistant and good outdoor durability. Fast dry and early hardness development.
HA5102	55	Xylene/ Butyl acetate	10	33	40	1.2	Good durability, hardness, scratch and dirk pick up resistant. Suitable for general protective and road line application.
HA5103	65	Xylene	10	250	106	3.2	High viscosity auto refinishing formulation. Good DOI with high dilution characteristic. Good chemical resistant and good outdoor durability.
HA5107	65	Butyl Acetate	10	100	142	4.3	Good hardness development. Good chemical and solvent resistant. Excellent exterior durability and mechanical properties. Suitable for high solid auto refinishing formulation.

HA5114	60	Xylene/ Butyl Acetate	10	20	99	3	Durability, Good DOI and good hardness development. Good mechanical and chemical performance. Suitable for general purpose protective coating and auto-refinish application.

Polycryl® (PT-cryl®) - high solids acrylic resins - 2-pack isocyanate cure

Product Code	NVC (%)	Solvent	Max. acid value	Typical viscosity @ 25ºC (poise)	Hydroxyl value	Hydroxyl content (%)	Features/ application(s)
HA518	75	Butyl Acetate	10	70	105	3.2	Enables VOC compliant coatings(<420g/l) with very good drying and hardening rates. High flexibility and impact resistance.
HA585	75	Butyl Acetate/ PMA	10	155	135	4.1	High solid and fast dry performance. Good outdoor durability. Excellent mechanical and chemical properties. Excellent flow and high gloss performance.

Polycryl® (PT-cryl®) - acrylic resins - stoving

Product Code	NVC (%)	Solvent	Max. acid value	Typical viscosity @ 25ºC (poise)	Hydroxyl value	Hydroxyl content (%)	Features/ application(s)
HA560	60	Xylene/ N-butanol	12	30	72	2.2	High performance stoving coating. Good chemical and outdoor durability. For small machinery and garden furniture coating.
HA561	60	Xylene/ N-butanol	12	80	66	2.0	High performance stoving coating. Good adhesion to steel and stainless-steel substrate. Good chemical and mechanical properties.

HA562	60	Xylene/ N-butanol	12	30	72	2.2	For general purpose stoving formulation with good chemical resistance and durability. For domestic appliance enamel used.

Polycryl® (PT-cryl®) – waterbased acrylic resins

Product Code	NVC (%)	Solvent	Max. acid value	Typical viscosity @ 25ºC (poise)	Hydroxyl value	Hydroxyl content (%)	Features/ application(s)
WA506	50	Butyl Glycol/ N-butanol/ water	10	20	-	-	Water base force dry coating. Suitable for 1k primer for steel substrate.
WA571	50	Butyl Glycol/ N-Butanol	50	25	-	-	Water base force dry coating. Good compatibility with many water base dispersion, emulsion and water reducible resin. Suitable as grinding resin for water base tinter formulation usage.
WA573	60	Butyl Glycol/ N-Butanol	50	75	35	1.06	Water base stoving formulation. High gloss and good mechanical properties. Suitable for stoving metallic basecoat binder.
WA587	50	Methoxy propanol	35	80	-	-	Non amine neutralized. Can withstand solvent coat including 2K or epoxy topcoat. Only for intermediate coating and primer coat for old paint film
WA5108	50	Methoxy Propanol	35	80	-	-	Non amine neutralized, water soluble acrylic resin. Good solvent resistant. Suitable for water-based binder and basecoat formulation.
WA5109	50	Butyl Glycol	50	25	-	-	Water reducible air dry application. Suitable for interior topcoat metal formulation. Suitable for water base painting colour paste formulation.
WA5113	50	Water/Butyl glycol	35	80	-	-	Amine neutralized, water soluble acrylic resin with co-solvent content. Good solvent resistant. Suitable for water-based binder and basecoat formulation.

Polycryl® (PT-cryl®) - acrylic resins - thermoplastic

Product Code	NVC (%)	Solvent	Max. acid value	Typical viscosity @ 25ºC (poise)	Features/ application(s)
TA540	70	Xylene / PMA	10	40	Acrylic co-polymer with outstanding pigment wetting and compatibility, fast solvent release. Use for universal grinding resin for tinter.
TA542	55	Butyl Acetate	10	55	Fast dry, durability and non yellowing properties. Suitable for concrete, wood and metal topcoat. Co-binder for Polygel GA807 for non leafing aluminium brush and roller formulation use.
TA546	50	Solvesso 100 / Xylene	10	250	Thermoplastic acrylic co-polymer for roof protection coatings. Suitable for floor vanishes formulation.
TA553	60	Xylene	10	70	Co-binder for GA807 in brush and roller application formulation for non-leafing aluminium formulation. 1K application in auto-refinishing clear and color coat application.
TA578	30	Butyl Acetate	10	10	Thermoplastic acrylic for plastic coating with good chemical resistance and solvent resistant.
TA581	40	Toluene	10	25	Fast dry and early hardness development with good abrasion resistance. Excellent solvent and chemical resistance. Suitable for industrial metal, wood and plastic formulation.
TA599	55	Solvesso 100	15	50	Excellent adhesion, hardness and fast dry. Suitable for primer formulation direct on galvanized, aluminium and steel substrate.
TA5101	55	Solvesso 100	25	55	Excellent adhesion to many substrates including galvanized metal. Suitable for top coating and primer formulation for 1K system.

Polygel® (PT-gel®) -oil type thixotropic resins

Product Code	NVC (%)	Solvent	Max. acid value	Typical viscosity @ 25ºC (ICI CP, poise)	Appearance	Oil Content (%)	Type	Features/ application(s)
GA800	55	White spirit	10	5	Soft gel	65	Linoleic	Wood stains and wood filler for good anti settling performance.
GA826	40	White spirit	10	3	Strong gel	64	Linoleic	Anticorrosive primers, decorative & building paints thick layer wood glazing. Suitable for wood filler formulation.
GA813	60	Xylene	10	-	Clear Thixotropic gel	39	Special fatty acid	Suitable for anticorrosive primers, decorative enamel as well as thick layer wood glazing. It also used to formulate texture coating. Also suitable for formulating the wiping filler. Good compatibility with short oil system.
GA815	100	-	5	-	Translucent	-	fatty acid modified polyester	Solventless and good compatibility with wide range of epoxy system. For anti-settling and sagging resistant.
GA821	60	Xylene	10	-	Clear Thixotropic gel	39	Special fatty acid	Ease dispersibility which suitable for anticorrosive primers, decorative enamel as well as thick layer wood glazing. It also used to formulate texture coating. Also suitable for formulating the wiping filler. Good compatibility with short oil system.

Polygel® (PT-gel®) -acrylic thixotropic resins

Product Code	NVC (%)	Solvent	Max. acid value	Appearance	Type	Features/ application(s)

WGA824	30	Butyl glycol	10	Milky white	Polyester copolymer	Good anti setting properties for pigmented in emulsion formulation. Good in metallic orientation system for water-based metallic basecoat combined with suitable resin. Can be applied in stoving and force dry system.
GA828	50	Xylene/ PMA/ Butyl acetate	10	Milky white	SCA Acrylic copolymer	Good compatibility with many resins system including epoxy resin. Excellent anti sag and anti-settling performance. Good metallic orientation. Suitable for stoving and air-dry basecoat formulation.
GA802 X35	35	Xylene	10	Clear	Acrylic	Good anti settling property. Good compatibility and suitable for clear coat system especially for vertical application to achieve high build property. The strong thixotropy index has make GA802 also suitable to be used in high polar system such as artificial marble where acrylic monomers are the main binder system. GA802 mixture pump able and flow able during manufacturing process .
GA807 BP35	35	Butyl Acetate / PMA	10	Translucent	Acrylic	Excellent solvent release and durability used for metallic orientation control without wax dispersion and also for wet on wet system. Suitable to be used in stoving basecoat with combination of polyester or acrylic melamine system. Good vertical spray and hold out of metallic basecoat.
GA808 X30	30	Xylene	15	Clear	Acrylic	Good anti settling property. Good compatibility and suitable for acrylic PU clear coat system especially for vertical application to achieve high build property. Suitable for stoving system. Brush or roller application for non leafing aluminium formulation.
GA 810 B30	30	Butyl Acetate	15	Milky White	Acrylic	Ease dispersibility type, excellent solvent release and durability used for metallic orientation control without wax dispersion and also for wet on wet system. Also, suitable as sole resin for binder formulation in refinishing.

Polyadd® (PT-add®) – Polymer Addictive

Polyadd® (PT-add®) – Dispersing addictive

Product Code	Active ingredient (%)	Solvent	Max. acid value	Amine value	Type	Features/ application(s)
AD1	70	Xylene	5	80-100	Co-polymer	Very strong pigment wetting for inorganic and carbon black. Reduce dispersing time, improve gloss and color strength.
AD12	100	-	15	80-100	Co-polymer	Very strong pigment wetting for inorganic and carbon black. Reduce dispersing time, improve gloss and color strength.
AD30	100	-	15	70-100	Polyacrylate	Highly efficient pigment wetting additive. Broad compatibility and recommended for direct grinding. Suitable for pigment paste formulation usage.
WAD32	98	-	5-15	15-25	Copolymer	Multi-purpose pigment wetting additive. Wide range of compatibility with many types of coating resin. Suitable for solvent and water-based pigment paste formulation usage.
AD34	50	Xylene/ Methoxy propyl acetate	50	-	Copolymer	Very strong pigment wetting for TiO_2 and inorganic extender. Reduce dispersing time, improve gloss and color strength.
AD35	60	Methoxy propyl acetate	10	30-100	Polyacrylate	Multi-purpose pigment wetting additive. Wide range of compatibility with many types of coating resin. Suitable for pigment paste formulation usage.

Polyadd® (PT-add®) – Defoamer addictive

Product Code	Active ingredient	Refractive index	Flash point (°C)	Density @25°C	Type	Features/ application(s)
WDF5	Alkyl benzene	1.495	40	0.88	Silicone	Excellent defoaming performance in water reducible, dispersion and emulsion formulation. Suitable in pigment paste formulation.
WDF50	-	1.451	-	0.98	Non silicone	Strong defoaming for high solid water base and emulsion system.
WDF54	-	1.336	-	0.95	Non silicone	Excellent defoaming property. Suitable for general defoaming purpose on all emulsion and dispersion system.

Product Code	Active ingredient	Solvent	Flash point (°C)	Density @25°C	Type	Features/ application(s)
Polyadd® (PT-add®) – Wetting and levelling addictive						
AL 21	50	Alkyl benzene/ Butyl acetate	47	0.94	Polyacrylate	Good levelling performance and suitable for all gloss level. Can be used in coil and can formulation. Recoatibility and no foam stabilization effect.
Polyadd® (PT-add®) – Miscellaneous addictive						
THX 6	6	Xylene/ Butyl acetate/ butanol	27	0.86	EVA copolymer dispersion	Improve orientation of metallic pigment, enhance flip flop effect. Improve in can anti settling performance.