

Coating Resins

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Production Sites



Polynt Group

After the merger on May 2017 the new Polynt Group is a global Company in the Intermediates, Coating and Composite Resins, Thermoset Compounds, Gel-coats and niche Specialties.

This combination enhances the Group's leading position as a global vertically integrated specialty chemicals player, with significant global presence in Europe, North America and Asia, a strategy initiated by Polynt with the successful integration of PCCR and CCP in the last years and now further reinforced by Reichhold's global scale, extensive product portfolio and R&D competencies.

Polynt Group is known for its superior quality and impressive range of products and with its excellent distribution network it can provide first-class service to customers whatever their market. Customer Service and Technical Service teams are renowned for their customer focus, offering the best service even after products have left manufacturing.

The Group strives to keep customers satisfied, assisting them in producing premium quality products every time they use its products.

Product innovation is important for the Group's business and it's the reason for which it constantly works with customers to find solutions to problems.

Introducing new or improved products ensures that Polynt Group continue not only to deliver what the market wants and needs, but also when it is wanted and needed.

Polynt Composites Canada, Inc. Brampton (ON) - Drummondville (QC)

Polynt Composites USA Inc. Carpentersville (IL) - Chatham (VA) -Ennis (TX) - Forest Park (GA) - Houston (TX) - Marshall (TX) - North Kansas City (MO) - Orlando (FL) - Sandusky (OH)

Solvents – Abbreviations

A100, S	Aromatic 100
A150, R	Aromatic 150
DGBE, G5	Diethylene Glycol n-Butyl Ether
DMC	Dimethyl Carbonate
DPDME, G8	Dipropylene Glycol Dimethyl Ether
DPM	Dipropylene Glycol Monomethyl Ether
EEP, A7	Ethyl 3-Ethoxypropionate
EGBE, G4	Ethylene Glycol Monobutyl Ether, Butyl Cellosolve
EGPE, EP, G6	Ethylene Glycol Monopropyl Ether
EtOAc	Ethyl Acetate
EtOH, E	Ethyl Alcohol
G	Glycol and Glycol Ether
i-BuOH, B1	Isobutyl Alcohol
IBIB	Isobutyl Isobutyrate
IPA, D	Isopropyl Alcohol
Isopar G	Isoparaffin Solvent
LAMS, ML	Low Aromatic Mineral Spirits
MAK, K4	Methyl Amyl Ketone
MEK, K1	Methyl Ethyl Ketone
MIBK, K2	Methyl Isobutyl Ketone
МО	Odorless Mineral Spirits
МРК, КЗ	Methyl Propyl Ketone

MS, M	Mineral Spirits
n-BuAc, A4	n-Butyl Acetate
n-BuOH, B	n-Butyl Alcohol
n-PrOH	n-Propyl Alcohol
NMP, MP	n-Methyl-2-Pyrrolidone
PCBTF, E1	para-Chlorobenzotrifluoride (Oxsol® 100)
PGME, G3	Propylene Glycol Monomethyl Ether
PMA, A6	Propylene Glycol Monomethyl Ether Acetate
PnP, G2	Propoxy Propanol
s-BuOH, B2	Secondary Butyl Alcohol
t-BuAc, E2	t-Butyl Acetate
т	Toluene
TEA	Triethyleneamine
DMEA	Dimethyl Ethanol Amine
NH3	Ammonia
ТРМ, Т8	Tripropylene Glycol Monomethyl Ether
VM&P, V	VM&P Naphtha
VMS, E3	Volatile Methylsiloxane
w	Water
x	Xylene
z	Mixed Solvents
6X3	Rule 66

Definitions

% NVM	Nonvolatile material expressed as a percent of the
% NVV	Nonvolatile material expressed as a percent of the
Eq. Wt.	Molecular weight divided by functionality, the latter of the material. Expressed based on a solids basis.
р Н	Degree of acidity or alkalinity of a solution expresse
Particle Size	Average diameter of a distribution of particles, usua
Tg	Temperature at which the non-crystalline portion of material. Generally an indication of the flexibility an
MFFT	Minimum temperature at which an applied coating to powdery appearance of film and film integrity, by te
Oil Type	Synthetic or naturally occurring vegetable material
Wt/Gal	Mass per volume of polymer as supplied expressed
Viscosity	Measurement of a polymer's resistance to flow exp
Reduced Viscosity	Measured viscosity (as defined previously) at a spe supplied.
Color	Measurement of the light reflectance of a polymer i being water white.
Acid Value (solids)	Number of milligrams of KOH required to neutralize
OH Value	Hydroxyl value – number of milligrams of KOH equ equivalent weight is given by 56,100 divided by the
Solvents	Dilution solvents used to achieve the desired viscos

Trademarked Brands

ACRYLAMAC®, AROLON®	Solution Acrylics
ALCURE®	Polymeric Isocyana
AQUAMAC®, AROLON®, SYNTHEMUL®	All Acrylic, Self-Cros
ARCHEMIS®	High Solids Long Oi
AROFLINT®	Non-Isocyanate 2K
BECKOSOL AQ®	Alkyd Emulsions
CARBAMAC®, UROTUF®	Oil Modified Uretha
CHEMACOIL®	Conventional Vinyl
DURAMAC®, BECKOSOL®	Alkyds, Flat Alkyds,
DURAMAC®, KELSOL®	Water-Reducible All
HYDREAU®	Polyester Dispersio
MACOPOL®, AMBERLAC®	Copolymer Resins
POLYMAC®, FINE-CLAD®, FINE-TONE®	Powder Polyesters
POLYMAC®, AROPLAZ®	Liquid Polyesters
EPOTUF®	Epoxy Resins, Epo
REZIMAC®, EPOTUF®	Epoxy Esters
REZIMAC®, BECKOSOL®	Silicone-Modified ar

e total weight of the resin solution.

e total volume of the resin solution.

being the number of a given reactive group present on an average molecule 3.

sed on a relative scale of 1 to 14 with 7 being neutral.

ally expressed in microns or nanometers.

of a polymer is transformed from a viscous rubbery state to a brittle glass-like nd hardness of a finished paint film.

g forms a continuous film, as evidenced by the visual lack of cracking or testing the film on a temperature gradient plate.

that contributes fatty acids used in producing alkyd resins.

ed in pounds per gallon.

pressed in Gardner-Holdt units or centipoises.

ecified percent weight solids typically lower than the solids of the polymer as

in liquid form expressed in Gardner units on a relative scale of 1 to 14 with 1

te the free acids in one gram of polymer solids.

uivalent to the hydroxyl groups available per gram of polymer. The hydroxyl e hydroxyl value.

osity.

ate Curatives

osslinking, Styrene Acrylic, and Vinyl Acrylic Latex

Dil Alkyds

Systems

anes, Uralkyds, Moisture Cure Urethanes, and Polyurethane Dispersions

Oxazoline-Modified Esters

, and Thixotropic Alkyds

lkyds

ons

oxy Curing Agents

and Phenolic-Modified Alkyds

Alkyds – Long Oil

PRODUCT	OIL TYPE	% SOLIDS (WEIGHT)	% SOLIDS (VOLUME)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (G - H)	REDUCED VISCOSITY (G - H)
CONVENTIONAL							
DURAMAC® 50-5070	Soya	70	63.0	7.95	MS	Z ₂ - Z ₄	D - G @ 50% MS
BECKOSOL® 10-029	TOFA	70	64.0	7.90	MS	Z ₂ - Z ₄	D - F @ 50% MS
BECKOSOL® 10-060	Soya	70	63.0	7.99	MS	Z - Z ₂	C - F @ 50% MS
BECKOSOL® 10-060-04	Soya	70	63.0	7.99	MS	Z - Z ₂	C - F @ 50% MS
BECKOSOL® 10-061	Soya	60	53.0	7.73	MS	T - V	C - F @ 50% MS
BECKOSOL® 91-373	Soya	65	—	7.85	MS	W - Y	C - F @ 50% MS
BECKOSOL® 91-415	Soya	60	—	7.73	MS	Y - Z ₁	I - L @ 50% MS
BECKOSOL® 92-115	TOFA	55	_	7.65	MS	U - W	D - G @ 45% MS
BECKOSOL® 1272-70	Soya	70	—	7.65	MS	B - D	—
BECKOSOL® 2502-ML-60	Soya	60	—	7.74	LAMS	Z ₂ - Z ₄	S - U @ 50% MS
BECKOSOL® 4027-M-66	Soya	70	63.0	8.00	MS	Z ₄ - Z ₆	F - H @ 50% MS
BECKOSOL® 91913-00	Safflower	65	—	7.80	LAMS	Z - Z ₂	—
BECKOSOL® AA-203	Soya	60	_	7.73	MS	Z ₃ - Z ₅	R - U @ 50% MS
HIGH SOLIDS							
DURAMAC® 201-1209	Soya	85	84.8	8.80	DMC	Z ₂ - Z ₄	_
ARCHEMIS® QD 201-2195	Sunflower / Fatty Acid Blend	96	95.0	8.40	MS	Z ₁ - Z ₃	H - L @ 75% MS
DURAMAC® 57-5816	Sunflower / Fatty Acid Blend	90	87.7	8.20	MS / X*	Z - Z ₂	H - J @ 70% MS
DURAMAC® 57-5866	Sunflower	90	87.3	8.30	MS	Z ₁ - Z ₃	I - K @ 70% MS
BECKOSOL® 10-539	Sunflower / Fatty Acid Blend	90	_	8.20	MS	Z ₁ - Z ₃	I - K @ 70% MS
BECKOSOL® 1271	Linseed	100	100.0	8.35	_	W _{+1/4} - Y	E - H @ 80% MS
BECKOSOL® 1272	Soya	100	100.0	8.35	—	W _{+1/4} - Y	E - H @ 80% MS
BECKOSOL® 1278-M-80	Linseed	80	—	8.25	MS	Z _{+1/2} - Z ₃	—
BECKOSOL® AX-154	Soya	100	100.0	8.24	—	Z ₁ - Z ₂	_

GARDNER COLOR (MAXIMUM)	ACID VALUE (SOLID MAX)	
7	10	Best balance of cost and perl architectural and general mai
7	10	Easy brushing properties for
8	8	Standard long oil; architectur
8	8	Standard long oil; architectur
8	8	Architectural and maintenanc
8	8	Architectural and maintenanc
6	8	Architectural and maintenanc
8	12	Architectural and maintenanc
8	6 - 10	High solids vehicle for archited
6	10	Architectural enamels
8	10	Architectural gloss and semi-
8	10 - 15	Architectural gloss and semi-
5	10	Architectural gloss and semi-
7	10	DMC version of DURAMAC®
8	12	Dry times comparable to con- can achieve 150 g/L VOC for
7	10	Good viscosity reduction for a
7	12	Improved yellowing resistanc be formulated to 250 g/L VOO
6	10	High solids long oil for archite
10	6 - 10	High solids vehicle for archite
10	6 - 10	High solids vehicle for archite
9	10	Architectural enamels, brushi
9	7 - 12	Architectural enamels, brushir

*Trace

FEATURES AND BENEFITS

rformance; formulating versatility from satin to very high gloss aintenance coatings

r quality architectural enamels; good gloss and gloss retention

ral and maintenance enamels; meets TT-R-266, Type 1, Class A

ral and maintenance enamels; contains no xylene

ice enamels; meets TT-R-266, Type 1, Class B

ce enamels; meets TT-R-266, Type 1, Class A

nce enamels; excellent brushing properties

ce enamels; easy brushing properties; good gloss and gloss retention

ectural enamels, 70% mineral spirits cut of Beckosol 1272.

i-gloss enamels; good exterior durability

i-gloss enamels; good durability and yellowing resistance

i-gloss enamels; good color and gloss retention

® 50-5070

nventional systems; excellent gloss and appearance; great brushability; or semigloss coatings

architectural applications; can be formulated to 250 g/L VOC

ce and gloss retention for interior and exterior architectural enamels; can DC

tectural enamels; VOC <250 g/L

tectural enamels

tectural enamels

ning enamels, trim enamels

ing enamels, trim enamels

Alkyds – Medium Oil

PRODUCT	OIL TYPE	% SOLIDS (WEIGHT)	% SOLIDS (VOLUME)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (G - H)	REDUCED VISCOSITY (G - H)
CONVENTIONAL							
DURAMAC® 51-5113	Soya	50	40.7	7.60	MS	Z ₅ - Z ₇	V - X @ 40% MS
DURAMAC® 51-5117	Soya	50	41.7	7.57	MS	Y - Z ₂	E - H @ 40% MS
DURAMAC® 51-5135	Soya	50	42.3	7.50	VM&P	Z ₂ - Z ₄	N - Q @ 40% VM&P
DURAMAC® 51-5150	Soya / Linseed	50	40.5	7.55	MS	W - Y	C - F @ 40% MS
DURAMAC® 51-5184	Soya	50	40.7	7.60	MS	Z _{1.5} - Z _{3.5}	K - O @ 40% MS
DURAMAC® 51-5186	TOFA	50	40.7	7.60	MS	Z ₄ - Z ₆	C - F @ 35% MS
DURAMAC® 51-7165	Soya	50	43.2	7.55	VM&P	Y - Z ₂	H - L @ 40% VM&P
DURAMAC® 54-5465	Soya	60	52.7	7.70	VM&P	Z ₄ - Z ₇	E - H @ 45% VM&P
DURAMAC® 204-1409	Soya	50	40.9	7.58	MS	W - Z	E - G @ 40% MS
DURAMAC® 204-1434	Soya	65	60.0	8.40	X / MS	Y - Z	—
DURAMAC® 204-1452	Soya	50	40.7	7.45	VM&P	Z ₁ - Z ₃	F - I @ 40% VM&P
DURAMAC® 204-1465	Soya	60	52.7	7.80	VM&P	Z _{3.5} - Z _{4.5}	—
DURAMAC® 204-1829	TOFA / Linseed	50	41.9	7.89	X / VM&P / MS	Z - Z ₂	—
DURAMAC® 204-8117	Soya	65	59.3	8.35	t-BuAc / MAK*	W - Z	_
BECKOSOL® 11-035	Soya	50	41.0	7.60	MS	Y - Z ₂	F - J @ 40% MS
BECKOSOL® 11-070	Soya / Linseed	50	41.0	7.60	MS	V - Y	C - G @ 40% MS
BECKOSOL® 11-081	Soya	50	40.0	7.44	VM&P	Z - Z ₂	G - J @ 40% VM&P
BECKOSOL® 11-090	Soya	60	52.0	7.72	VM&P	Z ₃ - Z ₅	D - G @ 45% VM&P
BECKOSOL® 11-090LC	Soya	60	52.0	7.72	VM&P	Z ₃ - Z ₅	E - H @ 45% VM&P
BECKOSOL® 11-630	TOFA	50	41.0	7.65	MS	Z _{4+1/2} - Z ₆	Q - U @ 40% MS
BECKOSOL® 1445-M-55	Soya / Linseed	55	—	7.70	MS	Z ₁ - Z ₃	—
BECKOSOL® 11036-E1	Soya	50		10.20	PCTBF / A100	V - Y	—
BECKOSOL® AA-207	Soya	50		7.46	VM&P / X	Z ₄ - Z ₆	R - U @ 40% VM&P
BECKOSOL® AA-220	Soya	60	—	8.25	Т	V - Y	I - L @ 50% T
BECKOSOL® AA-220-E2	Soya	70	—	8.52	t-BuAc / T	Z ₃ - Z ₅	V-W _{+1/2} @50%t-BuAc
BECKOSOL® IA-378	Soya	45	—	7.48	MS	W - Y	N- Q @ 40% MS
BECKOSOL® IA-638	Soya	47	—	7.66	MS / X	X - Z	—
HIGH SOLIDS							
DURAMAC® 204-1335	Soya	75	70.0	8.80	A100 / n-BuAc	Y - Z ₁	—
DURAMAC® 204-2768	Soya / Linseed	80	76.0	8.75	A100 / n-BuAc / X	Z ₁ - Z ₃	B - C @ 60% n-BuAc
BECKOSOL® 97-150	Soya	75	70.0	8.55	Т	V - X	_

	OH VALUE (ON SOLIDS)	ACID VALUE (SOLID MAX)	GARDNER COLOR (MAXIMUM)
High drink alkyd; fast	114	10	6
High gloss with good maintenance applica	90	10	6
Good gloss, color ret with medium oil chair	96	10	7
Brushable industrial	101	10	6
General purpose alk industrial maintenand	55	12	5
High drink alkyd for le resistance	—	10	6
Fast drying medium	—	10	7
General metal and st	—	8	8
Good dry, flow and le	57	10	8
Hydroxyl functionality excellent flow and le	100	6	6
Good gloss, color ret	72	9	8
Fast dry time and go resistance	—	8	8
Fast dry time with go	—	16	12
Supplied in exempt s maintenance coating	90	10	7
Industrial primers an	—	12	8
Industrial primers an	_	12	10
Traffic paints; industr	_	8	4
Traffic paints	—	8	8
Traffic paints, low co		8	5
Industrial primers and		7 - 14	8
Meets Federal Spec		12	8
Supplied in exempt s	_	5 - 12	8
Traffic paint, quick dr		14	8
Traffic paint	—	12	8
Supplied in exempt s	—	12	8
Low cost industrial p	—	12	7
Industrial air-dry or tr	—	5	7
High gloss, excellent applications; sufficien	—	10	8
Fast dry time with goo	50	10	8
Fast dry for traffic pai	_	8	8

FEATURES AND BENEFITS

st dry; good color and gloss retention for air-dry primers and enamels

d color and color retention for low odor architectural and industrial ations; can be used to modify long oil alkyds to improve dry etention, flexibility and durability for general industrial coatings; compati

etention, flexibility and durability for general industrial coatings; compatible in-stopped alkyds

maintenance coatings; meets TT-R-266D, Type III

kyd with good dry, durability and brushability for architectural and lice systems

lower solids coatings; excellent durability and water and gasoline

oil alkyd with good water resistance

structural steel applications

eveling, and color retention; high gloss; meets TT-R-266D, Type IV

ty for baking systems where additional adhesion is desired; very fast dry; eveling and high gloss; excellent pigment wetter

tention, flexibility and durability for general industrial coatings

bod pigment wetting for use in traffic marking paints; good abrasion

ood initial appearance; good gloss and tack-free time

solvent; high gloss and good color retention for brushable trade sales and gs

nd enamels

nd enamels; meets Federal specification TT-R-266 and Type III

rial primers and enamels

olor

nd enamels

TT-R-266d, Type III, metal and wood substrates

solvent; industrial primers and enamels

ry primers and enamels

solvent; traffic paints

primers and enamels

rade-sales finishes for interior use

t brushing properties and compatibility with aliphatic solvents for aerosol nt hydroxyl functionality for baking

od gloss retention, hardness and exterior durability

int

Alkyds – Short Oil

PRODUCT	OIL TYPE	% SOLIDS (WEIGHT)	% SOLIDS (VOLUME)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (G - H)	REDUCED VISCOSITY (G - H)
DURAMAC® 52-5252	Soya	50	42.7	8.30	х	Z ₁ - Z ₃	H - J @ 40% X
DURAMAC® 52-5284	TOFA	55	46.2	8.00	VM&P / i-BuOH	Z ₆ - Z ₇	F - I @ 40% X
DURAMAC® 207-1040	TOFA	50	43.0	8.30	х	Z ₂ - Z ₄	K - N @ 40% X
DURAMAC® 207-1985	TOFA	70	62.6	8.65	EGPE / EtOH	T - V	C - G @ 55% EGPE
BECKOSOL® 12-054	TOFA	50	42.0	8.32	Х	Z ₂ - Z ₄	K - N @ 40% X
BECKOSOL® 12-093	TOFA	50	43.0	8.25	Х	V - Y	C - E @ 40% X
BECKOSOL® 1133-A4-70	Soya	70	_	8.80	n-BuAc / A100	Z ₃ - Z ₅	_
BECKOSOL® 1133-X-60	Soya	60	_	8.45	Х	Z _{3+3/4} - Z _{5+1/4}	_
BECKOSOL® 1365-X-60	Linseed	60	—	8.45	Х	Z - Z ₂	B _{-3/4} - E @ 40% X
BECKOSOL® 1365-6X3-60	Linseed	60	_	7.97	Rule 66 exempt solvent blend	Z - Z ₂	B _{-3/4} - G _{+1/4} @ 40% X
BECKOSOL® 1453-X-50	TOFA	50	43.1	8.25	Х	Z ₁ - Z ₃	F _{+1/2} - L @ 40% X
BECKOSOL® 12054-E2	TOFA	54	47.5	8.40	t-BuAc / A100	Z ₁ - Z ₃	_
BECKOSOL® 12093-A4-70	TOFA	70	—	8.91	n-BuAc	Z _{3+1/2} - Z _{5+1/2}	_
BECKOSOL® AC-230	Soya	50	—	8.20	X / n-BuOH	Z ₁ - Z ₃	J - M @ 40% X
BECKOSOL® AC-230-A4V-50	Soya	50	—	7.90	n-BuAc / VM&P / n-BuOH	Y - Z ₂	D - G @ 40% X
BECKOSOL® IA-441	Soya	55	—	8.25	Т	W _{+1/2} - Y	Z _{9+3/4} @ 40% T
HIGH SOLIDS							
DURAMAC® 57-5742	TOFA	88	87.1	9.33	Х	Z _{5.5} - Z _{6.5}	I - M @ 70% X
DURAMAC® 207-1575	TOFA	85	81.0	9.30	A100	Z _{4.5} - Z _{6.5}	_
DURAMAC® 207-2012	Fatty Acid Blend	80	75.6	8.90	n-BuAc / MAK	X - Z	K - M @ 70% n-BuAc
DURAMAC® 207-2706	TOFA	78	77.0	9.10	n-BuAc	T - V	_
BECKOSOL® 6193-K3-80	Sunflower	80	74.0	8.75	MPK / X	U - W	_
BECKOSOL® 91748-00	Soya	75	68.8	8.85	i-BuAc / i-PrOH/ A100	Z _{3+1/2} - Z _{4+1/2}	_

GARDNER COLOR (MAXIMUM)	ACID VALUE (SOLID MAX)	OH VALUE (ON SOLIDS)	
4	12	_	Good exterior gloss reter corrosion resistance; eas
6	11	_	Low force dry curing wi and flexibility
6	12	140	Excellent baking finishe solvent resistance
7	10		Fast curing and low yel
6	12	_	Standard short oil; high durability
6	4 - 10	—	Low viscosity industrial
4	10	—	General purpose indus
4	10		General purpose indus
9	18 - 25		Meets Federal Spec TT
9	18 - 25		Meets Federal Spec T Cut in exempt solvents
7	10		High drink alkyd for bal
6	12	—	Same polymer as BEC
6	4 - 10	—	Industrial coatings with speeds
7	10	—	Fast air dry and thermo finishes
7	10	—	Fast air dry and thermo finishes
8	20	—	Fast solvent release for
7	10	152	Workhorse resin designe formulated to 340 g/L VC
7	10	152	Duramac 57-5742 in HA
7	3	81	Designed for use with iso (economical); melamine
7	12	—	Cut in a HAPS-free solve of corrosion and humidit
8	10	68	Designed for use with iso (economical); can be for
4	15 - 25	_	Very low HAPS, <0.3% f

FEATURES AND BENEFITS

ention; compatible with urea and melamine resins; good air-dry properties and asily formulated into bake coatings that meet fast production finishing schedules

vith fast cure and high gloss; good pigment wetting, impact resistance

nes that exhibit outstanding hardness properties; good chemical and

ellowing; excellent durability and high throughput

h viscosity baking enamels with good initial color and very good exterior

al baking enamels with fast baking speed; excellent color retention

strial coatings with low temperature cure; good color and gloss retention

strial coatings with low temperature cure; good color and gloss retention

T-P-1757, Composition C, Corrosion Inhibiting Primer for Aircraft Use

T-P-1757, Composition C, Corrosion Inhibiting Primer for Aircraft Use. s as defined by Rule 66

aking enamels

CKOSOL® 12-054 supplied in tertiary butyl acetate and Aromatic 100.

h low temperature cure; good color and gloss retention; fast baking

nosetting enamels for drum enamels, aerosols and general industrial

nosetting enamels for drum enamels, aerosols and general industrial

or non-coning traffic paint

ned for baking systems; good cost/performance balance; can be /OC

APS-free solvent.

socyanate crosslinkers; high equivalent weight for low isocyanate demand e compatible; excellent exterior durability

vent designed for baking systems; good gloss retention; excellent balance ity resistance

socyanate crosslinkers; high equivalent weight for low isocyanate demand ormulated to VOC = 420 g/L with HDO or IPDI prepolymers.

for conversion varnishes, nitrocellulose modifier or baking enamels

Alkyds – Non-Oxidizing Oils

PRODUCT	OIL TYPE	% SOLIDS (WEIGHT)	% SOLIDS (VOLUME)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (G - H)	REDUCED VISCOSITY
CONVENTIONAL							(G - H)
DURAMAC® 52-5205	Coconut	60	52.6	8.55	Х	Z ₃ - Z ₅	C - E @ 40% X
DURAMAC® 52-5222	Coconut	60	50.6	8.10	VM&P / i-BuOH	Z _{3.5} - Z _{5.5}	R - V @ 50% X
DURAMAC® 207-1108	Coconut	60	52.2	8.62	т/х	Y - Z ₂	_
DURAMAC® 207-1109	Coconut	70	62.1	8.74	i-BuOH / T / X	Z ₁ - Z ₃	—
DURAMAC® 207-1205	Coconut	70	63.2	8.92	n-BuAc	Z ₁ - Z ₃	Q - T @ 60% n-BuAc
DURAMAC® 207-1395	Coconut	60	49.5	8.10	VM&P / i-BuOH / X	Z ₂ - Z ₄	—
BECKOSOL® 12-021	Coconut	60	53.0	8.65	Х / Т	X - Z	J - M @ 50% T
BECKOSOL® 12-035	Coconut	60	52.0	8.65	Х	Z ₁ - Z ₃	A - D @ 40% X
BECKOSOL® 90-095	Coconut	70	62.0	9.02	n-BuAc / X	Z ₁ - Z ₃	D - F @ 50% T
BECKOSOL® 91-470	Coconut	70	62.0	9.02	n-BuAc	Z ₁ - Z ₃	D - F @ 50% X
BECKOSOL® 98-364	Coconut / Soya	70	_	8.43	VM&P / i-BuOH / X	Z ₁ - Z ₃	A - B @ 50% X
BECKOSOL® 2477-X-65	Castor	65	58.5	8.60	Х	X - Z	A2 - B @ 40% X
BECKOSOL® 2575-X-60	Coconut	60	52.0	8.65	Х	Z ₂ - Z ₄	C - E @ 40% X
BECKOSOL® 12021-G4-70	Coconut	70	64.0	9.05	EGBE / A100	Z - Z ₃	—
BECKOSOL® 12035-E2	Coconut	64	56.0	8.75	t-BuAc / A100	Z ₁ - Z ₃	—
BECKOSOL® 91689-00	Coconut	70	_	8.86	T / X / n-BuOH	Z ₁ - Z ₃	—
HIGH SOLIDS							
DURAMAC® 207-2750	Coconut	75	68.2	8.78	IPA / Isobutyl Acetate / A100	Z ₂ - Z ₄	—
BECKOSOL® 90-185	Coconut	80	74.0	9.21	n-BuAc / MPK / X	Z ₄ - Z ₆	—
BECKOSOL® 91-586	Coconut	89		—	MPK/PMA	Z _{6+3/4} - Z _{7+3/4}	_
BECKOSOL® 1351	Castor	100	100.0	8.60	—	W _{+1/4} - Y	—
BECKOSOL® 91780-00	Coconut	75	—	8.95	IPA / Isobutyl Acetate / A100	Z ₁ - Z ₃	—

		ACID VALUE	
	OH VALUE (ON SOLIDS)		GARDNER COLOR (MAXIMUM)
High quality non-yellowin	175	8	2
Non-drying, non-yellowin resin	_	10	3
Designed for use in high plasticizer for nitrocellulo	175	8	2
Designed for use in high plasticizer for nitrocellulo	175	7	2
Higher solids, high quality lacquers	175	8	3
Designed for use in bakir	—	12	2
Standard coconut alkyd;	—	12	3
Standard coconut alkyd;	—	12	3
Plasticizer for nitrocellulos	—	12	2
High temperature baking	—	12	4
Wood finishes	—	12	3
Improves elongation and	125	10	6
Plasticizer for nitrocellulo	—	10	3
Good color and color rete	_	12	3
Standard coconut supplie baking enamels	—	4 - 12	3
Conversion varnishes; lig	—	7	2
High quality non-yellowin	—	26	3
Plasticizer for nitrocellulo	—	12	3
High bake white enamels	—	15	3
Improves elongation and	165	10 - 15	5
Standard coconut supplie white enamels	—	4 - 12	3
		0	

FEATURES AND BENEFITS

ing baking enamels and plasticizers for nitrocellulose lacquers

ing, high gloss alkyd for high quality baking finishes; lacquer plasticizing

h quality wood conversion varnishes; low color; can be used as a lose lacquers; can be cured with isocyanate crosslinkers

h quality wood conversion varnishes; low color; can be used as a lose lacquers; can be cured with isocyanate crosslinkers

lity non-yellowing baking enamels and plasticizers for nitrocellulose

king systems; good reactivity; high gloss and good exterior weathering

d; plasticizer for nitrocellulose lacquers; light-colored baking enamels

d; plasticizer for nitrocellulose lacquers; light-colored baking enamels

ose lacquers; light-colored baking enamels

ng enamels, light colored furniture lacquers

nd flexibility of nitrocellulose lacquers

lose lacquers; light-colored baking enamels

etention in a baking enamel. Capable of 275 g/L VOC.

lied in exempt solvent; plasticizer for nitrocellulose lacquers; light-colored

light colored furniture lacquers

ing baking enamels; good exterior durability

lose lacquers; light-colored baking enamels

els, light colored furniture lacquers

nd flexibility of nitrocellulose lacquers

lied in low HAPS solvent; plasticizer for nitrocellulose lacquers; high bake

Alkyds – Chain-Stopped

PRODUCT	OIL TYPE	% SOLIDS (WEIGHT)	% SOLIDS (VOLUME)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (G - H)	REDUCED VISCOSITY (G - H)
CONVENTIONAL							<u> </u>
DURAMAC® 51-5110	Soya	50	41.3	7.70	MS / PMA	Z ₄ - Z ₆	S - V @ 35% MS
DURAMAC® 51-7634	Soya	60	50.5	8.00	Х	Z ₂ - Z ₄	A - C @ 40% X
DURAMAC® 52-5290	TOFA	50	42.7	8.30	Х	W - Z	F - I @ 40% X
DURAMAC® 52-7597	TOFA	50	40.5	7.80	VM&P / i-BuOH / T / X	Z ₁ - Z ₃	_
DURAMAC® 52-7733	TOFA	50	42.3	8.33	Х	Z ₃ - Z ₅	N - P @ 40% X
DURAMAC® 52-7784	TOFA	65	56.3	8.45	МАК	T - X	K - N @ 60% MAK
DURAMAC® 204-1050	Soya	60	51.4	7.85	VM&P / T / IPA	Z ₃ - Z ₅	A1 - B @ 40% X
DURAMAC® 207-1213	TOFA	60	51.9	8.60	t-BuAc / MAK*	Z - Z ₂	L - P @ 40% t-BuAc
DURAMAC® 207-1228	TOFA	70	67.0	9.40	DMC/MAK*	Z ₄ - Z ₆	_
DURAMAC® 207-1246	TOFA	50	42.8	8.40	т/х	Z ₁ - Z ₅	H - K @ 40% T
DURAMAC® 207-1290	TOFA	55	49.0	8.40	t-BuAc / MAK*	W - Z	F - J @ 40% t-BuAc
DURAMAC® 207-1291	TOFA	60	57.0	9.21	DMC / MAK*	W - Z	_
DURAMAC® 207-1405	Soya	50	42.5	8.30	Х	U - W	C - E @ 40% X
DURAMAC® 207-1406	Soya	50	42.5	8.30	Х	U - Y	E _{+1/4} - H @ 40%
DURAMAC® 207-1407	Soya	56	48.1	8.26	t-BuAc / MAK*	X - Z	_
DURAMAC® 207-7734	TOFA	60	52.3	8.71	n-BuAc / X	Y - Z ₁	_
BECKOSOL® 12-102	TOFA	50	43.0	8.28	х	X - Z	E - H @ 40% X
BECKOSOL® 91-156	Soya	60	_	8.10	X / T / VM&P / i-BuOH	Z ₂ - Z ₄	N - P @ 50% X

GARDNER COLOR (MAXIMUM)	ACID VALUE (SOLID MAX)	OH VALUE (ON SOLIDS)	
6	12	62	Medium Chain-Stopped v dry to tape times; excelle
6	12	_	Medium Chain-Stopped v
6	12	112	Fast dry with good gloss
8	11	—	Good dry time and appea
6	10	145	Very fast dry, high drink a
8	12	123	Higher solids; good gloss
6	12	—	Medium Chain-Stopped v
7	12	—	HAPS-free; very fast air c
8	12	_	High gloss and good hard
7	12	_	Fast air dry; low yellowing
6	12	119	HAPS-free and exempt s medium oil alkyds
7	12	_	HAPS-free and exempt s medium oil alkyds
6	12	85	Superior exterior durabilit used in low temperature
6	12	—	Implement finishes and o
6	12	85	Implement finishes and o Supplied in exempt solve
8	12	—	High gloss and good hard
6	12	_	Standard chain-stopped; and color; good exterior c
5	12	—	Fast set and through dry

FEATURES AND BENEFITS

with excellent weatherability; high gloss and durable exterior coatings; fast lent adhesion and flexibility; good pigment wetting

with fast dry, good color and gloss retention

s for general industrial air-dry and baking finishes

earance

alkyd for general industrial air-dry and baking applications

s and hardness

with fast dry, good pigment wetting and adhesion

dry; easily formulated into baking enamels

dness in fast air dry and force dry applications.

ng, good hardness

solvent; very fast dry with good gloss retention and good compatibility with

solvent; very fast dry with good gloss retention and good compatibility with

lity and very fast dry for machinery and implement coatings; can also be bake finishes

other uses where high quality, fast dry and good durability are desired

other uses where high quality, fast dry and good durability are desired.

rdness in fast air-dry and force-dry applications; high solvent drink

l; fast dry enamels, shopcoats, and conversion varnishes; good hardness durability; rapid response with UF and MF resins

/ times for industrial and machinery enamels; good gloss and color retention

Alkyds – Chain-Stopped

PRODUCT	OIL TYPE	% SOLIDS (WEIGHT)	% SOLIDS (VOLUME)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (G - H)	REDUCED VISCOSITY (G - H)
CONVENTIONAL							
BECKOSOL® 91-297	Soya	65	59.0	8.57	Х	Z ₃ - Z ₅	H - K @ 50% X
BECKOSOL® 91-383	Soya	55	47.5	8.46	A100 / X	Z _{2+1/2} - Z _{3+3/4}	_
BECKOSOL® 12102-E2	TOFA	55	47.0	8.45	t-BuAc / n-BuAc / A100	Z - Z ₂	_
BECKOSOL® 12103-X-50	Soya	50	43.0	8.30	Х	U - W	C - E @ 40% X
BECKOSOL® 12108-E2-56	Soya	56	48.2	8.50	t-BuAc / A100	X - Z	_
BECKOSOL® 91790-00	Soya	50	42.0	7.62	LAMS / X	Z ₃ - Z ₅	A - D @ 40% X
BECKOSOL® AB-125	TOFA	50	—	8.40	Х	Z ₂ - Z ₄	C - E @ 34% X
BECKOSOL® AB-125-E2	TOFA	55	_	8.64	t-BuAc / A100	Z ₃ - Z ₅	—
BECKOSOL® EP-2692	TOFA	50	_	8.16	X / VM&P	Z - Z ₄	F - I @ 40% X
HIGH SOLIDS							
DURAMAC® 57-5720	TOFA	75	68.3	8.65	MPK / n-BuAc / X*	Z - Z ₂	_
DURAMAC® 57-5731	Soya	75	69.3	8.80	MPK / n-BuAc / X*	Z ₁ - Z ₃	I - K @ 60% X
DURAMAC® 207-2707	Fatty Acid Blend	75	67.9	8.90	X / MPK	Z - Z ₂	G - H @ 60% X
DURAMAC® 207-2720	TOFA	75	69.8	8.90	n-BuAc / MAK*	Z ₂ - Z ₅	—
DURAMAC® 207-2725	DCO / Soya	75	68.2	8.90	X / MPK	Z - Z ₂	_
DURAMAC® 207-2742	Sunflower	75	69.0	8.99	n-BuAc / X	Z ₁ - Z ₃	H - I @ 60% X
DURAMAC® 207-2852	DCO / Soya	75	67.3	8.90	MAK	Z - Z ₃	F - I @ 60% MAK
BECKOSOL® 6421-X-75	Sunflower	75	69.1	8.95	Х	Z _{5+1/2} - Z _{6+1/4}	_
BECKOSOL® 6422-K3-75	Sunflower	75	69.0	8.70	MPK	X _{+1/2} - Z _{+1/2}	_
BECKOSOL® 6424-A4K4-75	Soya / DCO	75	68.5	8.90	n-BuAc / MPK / X	Z ₁ - Z ₃	_
BECKOSOL® 6440-A4-85	Sunflower	85	82.3	8.65	n-BuAc	Z ₄ - Z ₅	_

GARDNER COLOR (MAXIMUM)	ACID VALUE (SOLID MAX)	OH VALUE (ON SOLIDS)	
6	12	—	Medium oil chain-stopped
7	8 - 14	—	Good dry and durability;
6	5 - 12	_	Non-HAPS, VOC exemp
6	5 - 12	—	Good dry and durability;
6	12	_	Exempt solvent short oil implement coatings
4	6	—	Medium oil Chain-Stoppe
5	10	_	Fast dry enamels, shopo durability; rapid response
5	5 - 10	_	Exempt solvent version c
5	14	—	Fast dry, good gloss and
12	10	66	Excellent dry rate with go applications; can be form
10	10	63	Good hardness, gloss an air-dry and baking applic
8	15	34	Short dry-to-handle time; possible
10	10	66	HAPS-free version of DU
8	15	47	Designed to produce lace
6	15	53	Good gloss and color ret
10	14	52	HAPS-free with excellent
8	10	—	Fast dry; low VOC enam
8	10	_	Fast dry; near HAPS-free
6	14	—	Fast dry; near HAPS-free
8	10	—	Fast dry; durable industri

FEATURES AND BENEFITS

ed; fast dry enamels, shopcoats, and conversion varnishes

r; high gloss for industrial and maintenance coatings

pt solvent version of BECKOSOL® 12-102

r; high gloss for industrial and maintenance coatings

il Chain-Stopped for low temperature bake systems and machinery and

ped soya alkyd in low aromatic mineral spirits and xylene

coats, and conversion varnishes; good hardness and color; good exterior se with UF and MF resins

of BECKOSOL® AB-125

d color retention

good hardness, gloss and color retention for general industrial mulated to 420 g/L VOC

and color retention with excellent viscosity reduction curve for industrial ications

e; fast cutback; low viscosity and good exterior durability; lower VOC is

URAMAC® HS 57-5720

cquer-like dry times; low viscosity at relatively low VOC

etention with fast viscosity cutback for air-dry enamels

nt gloss and exterior durability; low viscosity at relatively low VOC

mels and shopcoats

ee; low VOC enamels and shopcoats

ee and low MIR solvents; low VOC enamels and shopcoats

trial finishes

Modified Copolymers

PRODUCT	MODIFIER	OIL TYPE	% SOLIDS (WEIGHT)	% SOLIDS (VOLUME)	DENSITY (LBS/ GAL)	SOLVENTS	VISCOS- ITY (G - H)	REDUCED VISCOSITY (G - H)
CONVENTIONAL								
MACOPOL® 53-5303	VT	Soya	50	42.6	7.38	VM&P	Y - Z ₁	N - Q @ 40% VM&P
MACOPOL® 53-5356	VT	Linseed	60	54.2	7.45	VM&P	Z ₁ - Z ₃	C - F @ 40% VM&P
MACOPOL® 53-5359	Acrylic / Styrene	DCO	50	45.0	7.95	Х	R - U	D - F @ 40% X
MACOPOL® 214-1003	VT / Styrene	Linseed	60	52.6	7.42	VM&P	Y - Z ₁	B - E @ 40% VM&P
MACOPOL® 214-1008	VT	Soya / DCO	60	53.4	7.70	MS	Z - Z ₂	—
MACOPOL® 214-1025	Styrene	Soya	60	53.7	8.12	X / VM&P	Z ₂ - Z ₅	G - K @ 40% X
MACOPOL® 214-1092	VT	Soya	60	52.3	7.65	VM&P	Z - Z ₂	C - F @ 40% VM&P
MACOPOL® 214-1260	VT / Styrene	Soya	60	51.5	7.60	VM&P	X - Z	—
MACOPOL® 214-1357	Acrylic / Styrene	Soya	60	52.3	7.65	VM&P / X	Z - Z ₂	E - G @ 40% VM&P
MACOPOL® 214-1408	VT	Soya / DCO	60	51.1	7.64	VM&P	Y - Z ₁	—
MACOPOL® 214-1428	VT / Styrene	Soya / Linseed	60	50.3	7.65	VM&P / MAK	Z - Z ₂	—
MACOPOL® 214-1481	VT	Soya	60	53.9	7.58	LAMS / A100	Z - Z ₂	E - G @ 40% LAMS
MACOPOL® 214-1524	VT / Acrylic	Soya	60	51.2	7.65	VM&P	Z - Z ₂	—
MACOPOL® 214-1530	Styrene	Soya	60	53.1	7.85	n-BuAc / VM&P	V - X	—
MACOPOL® 214-2160	Styrene	Tung / Soya	70	64.8	8.43	Х	Z ₂ - Z ₄	F - H @ 50% X
AMBERLAC® 13-040	VT	Soya	50	40.0	7.35	VM&P	Z ₃ - Z ₅	—
AMBERLAC® 13-046	Acrylic	Soya	50	43.0	8.18	Х	T - V	D - F @ 40% X
AMBERLAC® 13801-S	Acrylic	DCO	50	45.0	8.05	A100	L-Q	—
AMBERLAC® 13-802	Acrylic	DCO	50	44.0	8.00	Х	N - R	—
AMBERLAC® 13802-E2	Acrylic	DCO	60	55.0	8.30	t-BuAc / A100	Z - Z ₂	—
AMBERLAC® 1074	VT	Linseed	60	—	7.40	VM&P	X _{+3/4} - Z ₁	—
AMBERLAC® 3704-V-60	VT / Styrene	Soya	60	54.7	7.50	VM&P / T	X - Z	—
HIGH SOLIDS								
MACOPOL® 57-5847	VT / Styrene	Soya / Linseed	80	77.0	8.30	Х	Z ₂ - Z ₅	G - J @ 60% VM&P
MACOPOL® 214-1158	Styrene / Acrylic	Fatty Acid Blend	70	65.0	8.60	n-BuAc	Y - Z ₁	J - L @ 60% n-BuAc
MACOPOL® 214-2105	VT	Soya	80	77.6	8.20	Х	Z ₃ - Z ₄	_
MACOPOL® 214-2122	Styrene / Acrylic	Fatty Acid Blend	70	63.4	8.50	Х	Z - Z ₂	U - W @ 65% X
MACOPOL® 214-2758	VT / Styrene	Soya / Linseed	75	69.7	8.30	MAK	Z - Z ₃	J - M @ 65% MPK

GARDNER COLOR (MAXIMUM)	ACID VALUE (SOLID MAX)	
6	8	Good gloss and adhesion to wood sur
5	8	Fast dry; rapid hardness and property
8	10	Excellent exterior durability; fast dry a
5	10	Excellent gloss; good aliphatic solvent pigment loading
5	5	Good hardness and dry properties for
8	10	Good durability, gloss, and gloss reter
5	8	Extremely fast dry and good adhesion
6	10	Fast dry; good adhesion to wood; goo
6	10	Extremely fast dry; good hardness dev
5	6	Very fast air-dry; good scratch and ma
6	8	Very fast air-dry; Good adhesion to we
5	10	Extremely fast dry and good adhesion
6	8	Fast dry to handle rate; high gloss; im
8	10	Fast dry; good adhesion to wood; fast
7	9	Fast dry; good exterior durability for g
6	14	Fast dry enamels, force-dry primers a
5	14	General topcoats with fast dry; good e
5	14	Faster solvent evaporation; fast air dr
4	14	General topcoats with fast dry; excelle
5	14	Amberlac 13-802 supplied in exempt
4	6.7	Quick dry enamels, aerosol, sanding s
6	14	High solids for lower VOC primers
10	15	340 g/L VOC formulas at good spray v hydrocarbon solvents
6	4	Fast dry; excellent exterior durability a properties; HAPS-free version of MAC
4	10	Extremely fast cutback with fast dry an requirements below 360 g/L
7	4	Excellent durability, color and gloss re
7	12	Quick dry with fast hardness developr

FEATURES AND BENEFITS

urfaces coupled with fast dry; good compatibility with aerosol propellants

y development; good pigment wetting

and good adhesion to metal surfaces for automotive applications

nt tolerance with fast solvent release in very hard films; capable of high

or architectural applications

ention for air and force-dry applications

on to a variety of substrates; can be formulated into stain-blocking primers

od gloss and compatibility with aerosol propellants

velopment

nar resistance; can be used as stain blocking primer

vood, good compatibility with aerosol propellants

on to a variety of substrates; can be formulated into stain-blocking primers

mproved durability over VT-modified alkyd

st recoat and sanding times

general industrial and implement coatings

and hammertone finishes

exterior durability, gloss and color

ry and baking properties, excellent hardness and mar resistance

lent exterior durability, gloss and color

solvent

sealer and factory primers

viscosity; suitable for wood or stain blocking primers; soluble in aliphatic

and good corrosion resistance; meets 420 g/L VOC with good application COPOL® HS 214-2122

and good hardness development; can be formulated to meet VOC

etention; can be formulated to meet VOC requirements of 360 g/L

oment; good gloss and low VOC (360 - 420 g/L)

Alkyds – Phenolic-Modified

PRODUCT	OIL TYPE	% SOLIDS (WEIGHT)	% SOLIDS (VOLUME)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (G - H)	REDUCED VISCOSITY (G - H)
CONVENTIONAL							
REZIMAC® 52-5203	Linseed / Tung	50	42.2	8.35	Х	X - Z	G - J @ 40% X
REZIMAC® 216-1074	Tung	54	47.9	7.40	MS	F-H	—
BECKOSOL® 10-015	Linseed	60	51.0	8.08	VM&P / X	Z ₂ - Z ₄	G - J @ 40% VM&P
BECKOSOL® 10-613	TOFA	60	50.0	7.78	VM&P / X	Z ₅ - Z _{8+1/2}	F - J @ 40% VM&P
BECKOSOL® 12-079	Linseed / Tung	50	42.0	8.29	Х	W - Y	F - J @ 40% X
BECKOSOL® 13-204	Tung	50	45.0	7.90	A100	J - M	
BECKOSOL® 663-X-50	Linseed / Tung	50	—	8.32	Х	W _{+1/4} - Y	G _{+1/4} - K _{+1/4} @ 40% X
BECKOSOL® 663-6X3-50	Linseed / Tung	50	—	7.80	VM&P / T / i-BuOH	W _{+1/4} - Y _{+1/4}	B - E @ 40% X
BECKOSOL® 663-XX-50	Linseed / Tung	50	—	7.80	VM&P / X / i-BuOH	X _{+1/2} - Z _{+1/2}	B - E @ 40% X
BECKOSOL® 663-S-50	Linseed / Tung	50	—	8.34	A100 / LAMS	Z ₆ - Z ₇	W - Y @ 40% X
BECKOSOL® 3859-E1-65	Oxidizing	65	—	9.74	PCBTF / MAK	Z ₁ - Z ₃	—
BECKOSOL® 8076-M-66	Tung / Linseed	60	53.0	7.50	MS	L - N	C - F @ 50% MS
BECKOSOL® AC-000	Linseed / Tung	60	—	7.50	MS / Dipentene	M - Q	D - F @ 50% MS
HIGH SOLIDS							
REZIMAC® 57-5737	TOFA	75	68.1	8.72	n-BuAc / MPK / X*	Z - Z ₂	C - E @ 60% MPK
REZIMAC® 57-5754	TOFA	75	68.1	8.72	n-BuAc / MPK / X*	Z - Z ₂	C - E @ 60% MPK
REZIMAC® 207-2754	TOFA	75	67.3	8.90	MAK / n-BuAc	Z ₄ - Z ₆	—
REZIMAC® 207-2810	Soya	76	69.0	8.78	MPK / n-BuAc / X	Z - Z ₂	—
REZIMAC® 216-2134	Tung	75	70.0	7.70	MS	T - V	H - J @ 66% MS
BECKOSOL® 3758-M-85	Linseed / Tung	85	_	7.80	MS	Z ₁ - Z ₂	—
BECKOSOL® 3859-Z-80	Oxidizing	80	73.5	8.90	MPK / T / X	Z ₁ - Z ₃	_
WATER-REDUCIBLE							
REZIMAC® 74-7478	Fatty Acid Blend	75	69.6	8.65	EGBE / s-BuOH	Z ₆ - Z _{6.5}	_

GARDNER COLOR (MAXIMUM)	ACID VALUE (SOLID MAX)	
12	35	Phenolic and rosin-modified alkyd with
8	—	Clear wood varnishes and aluminum presistance
10	20	Drum, toy and chassis enamels; fast o
10	20 - 30	Drum, toy and chassis enamels; 1000
14	10 - 30	Lift resistant primers; drum, toy and ch specification TT-P-664D
15	20	Modifier for long and medium oil alkyd
10	26 - 32	Lift resistant primers; drum, toy and ch specification TT-E-515A and TT-P-664
10	26 - 32	Lift resistant primers; drum, toy and ch "Exempt" resin for TT-E-515A AND
10	26 - 32	Toluene-free version of 663-6X3-50.
10	24 - 32	Aromatic 100 version of 663-6X3-50;
10	14 - 23	Lift resistant primers; drum, toy and ch specification TT-P-664D
15	30	Spar varnish, meet DOD-V-15218 Typ
12	33	Exterior spray varnishes, marine enan
10	22	Rapid dry characteristics; excellent sa in Federal specification TTP-664D hig
10	22	Excellent exterior durability, corrosion resists lifting when topcoated
10	22	HAPS-free version of 57-5754
11	22	Fast-drying and low VOC; can be forn 664D; excellent non-lifting properties
9	—	Low viscosity for use in wood stains a
10	18	Phenolic modified drying oil; very effect exterior durability
10	14 - 23	Lift resistant primers; drum, toy and ch blend; meets Federal specification TT
8	41	Good corrosion resistance for air and

FEATURES AND BENEFITS

th lacquer-like dry for general metal primers

pigmented finishes; good leafing properties; good chemical and abrasion

drying; good water resistance

0% MS tolerance; fast drying; good water resistance

chassis enamels; fast drying; good water resistance; meets Federal

ds to improve through dry, hardness, water resistance and recoatability

chassis enamels; fast drying; good water resistance; meets Federal 34D

chassis enamels; recommended resin for MIL-E-15090C, Type II, Rule 66 TT-P-664D

; mirror backing coatings.

chassis enamels; fast drying; good water resistance; meets Federal

/pe II

amels

salt spray and outstanding topcoat lifting resistance; recommended for use igh solids corrosion inhibiting primers

n resistance and flexibility for industrial air-dry coatings; fast recoatability;

mulated to meet SSPC Paint 25 Spec and federal specification TT-P-

and varnishes; good adhesion and exterior durability

ective fortifier in upgrading alkyds for adhesion, chemical resistance and

chassis enamels; fast drying; good water resistance; exempt solvent T-P-664D

d force-dry primers; minimal recoat window; resists lifting

Alkyds – Silicone-Modified

PRODUCT	OIL TYPE	% SOLIDS (WEIGHT)	% SOLIDS (VOLUME)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (G - H)	REDUCED VISCOSITY (G - H)
CONVENTIONAL							
REZIMAC® 62-6203	TOFA	50	42.0	8.25	х	M - O	A ₁ - B @ 40% X
REZIMAC® 62-6247	Soya	50	43.2	8.20	Х	U - X	_
REZIMAC® 62-6260	Soya	60	50.7	7.90	MS	W - Y	C - F @ 45% MS
REZIMAC® 62-6283	Soya	50	41.4	7.60	MS	I-L	_
REZIMAC® 213-1136	Linseed	50	42.5	8.30	Х	P - U	_
REZIMAC® 213-1285	Linseed / Soya	50	41.4	7.58	MS / VM&P	N - Q	_
HIGH SOLIDS					, i i i i i i i i i i i i i i i i i i i		
REZIMAC® 57-5747	Soya	80	74.8	8.70	MAK / n-BuAc	Z - Z ₂	H - J @ 65% n-BuAc
REZIMAC® 57-5861	Soya	70	64.8	8.53	A100	T - W	G - J @ 62.5% A100
BECKOSOL® 4298S	Soya	80	76.0	8.77	A100 / X	Z ₂ - Z ₄	_
WATER-REDUCIBLE							
REZIMAC® 74-7435	Fatty Acid Blend	75	70.0	9.00	EGBE	Z ₅ - Z _{6+1/2}	_

11 6 Silicone alkyd copolymer with epoxy for air-dry and bake applications 8 12 Good exterior durability and flexibility 7 12 Good dry time with good gloss deverged flexibility 6 15 Good heat resistance and gloss in a good flexibility 9 12 Excellent exterior color and gloss restrict 8 12 Excellent exterior color and gloss restrict 9 12 Excellent exterior durability with excellent 8 12 Excellent exterior durability with excellent 7 10 Excellent exterior durability with excellent 10 12 Excellent exterior durability with excellent 7 10 Excellent exterior durability with excellent 10 12 High gloss, good gloss and color retered		i	1
11 6 Silicone alkyd copolymer with epoxy for air-dry and bake applications 8 12 Good exterior durability and flexibility 7 12 Good dry time with good gloss devergood flexibility 6 15 Good heat resistance and gloss in a good flexibility 9 12 Excellent exterior color and gloss restricted compliance 8 12 Excellent exterior durability with excellent exterior durability wi	COLOR		
11 6 Silicone alkyd copolymer with epoxy for air-dry and bake applications 8 12 Good exterior durability and flexibility 7 12 Good dry time with good gloss dever good flexibility 6 15 Good heat resistance and gloss in a good flexibility 9 12 Excellent exterior color and gloss restrict the arresistance 8 12 Excellent exterior durability with exce 8 12 Excellent exterior durability with exce 10 12 Excellent exterior durability with exce 7 10 Excellent exterior durability with exce 7 10 Excellent exterior durability with exce 7 10 Excellent exterior durability with exce 8 12 Excellent exterior durability with exce 10 12 Excellent exterior durability with exce 7 10 Excellent exterior durability with exce 8 48 High gloss, good gloss and color reter 8 48 High gloss, good gloss and color reter			
11 0 for air-dry and bake applications 8 12 Good exterior durability and flexibility 7 12 Good dry time with good gloss deverged flexibility 6 15 Good heat resistance and gloss in a 9 12 Excellent exterior color and gloss response 8 12 Excellent exterior durability with excellant 8 12 Excellent exterior durability with excellant 10 12 Excellent exterior durability with excellant 7 10 Excellent exterior durability with excellant 7 10 Excellent exterior durability with excellant 6 48 High gloss, good gloss and color retered	8	20	Chain-stopped alkyd with good dura
0 12 TT-E-1593B and TT-E-490E 7 12 Good dry time with good gloss devered good flexibility 6 15 Good heat resistance and gloss in a 9 12 Excellent exterior color and gloss restrict the transmission of trans	11	6	Silicone alkyd copolymer with epoxy for air-dry and bake applications
12 good flexibility 6 15 Good heat resistance and gloss in a 9 12 Excellent exterior color and gloss re 9 12 Excellent exterior color and gloss re 8 12 Excellent exterior durability with exce 10 12 Excellent exterior durability with exce 7 10 Excellent exterior durability with exce 6 48 High gloss, good gloss and color rete solids; ideal for air-dry coatings require	8	12	Good exterior durability and flexibilit TT-E-1593B and TT-E-490E
9 12 Excellent exterior color and gloss re TT-P-28G compliance 8 12 Excellent exterior durability with exce 10 12 Excellent exterior durability with exce heat resistance 7 10 Excellent exterior durability with exce 6 48 High gloss, good gloss and color rete solids; ideal for air-dry coatings require	7	12	Good dry time with good gloss deve good flexibility
3 12 TT-P-28G compliance 8 12 Excellent exterior durability with exce 10 12 Excellent exterior durability with exce 7 10 Excellent exterior durability with exce 6 48 High gloss, good gloss and color rete solids; ideal for air-dry coatings require	6	15	Good heat resistance and gloss in a
10 12 Excellent exterior durability with excertain heat resistance 7 10 Excellent exterior durability with excertain heat resistance 6 48 High gloss, good gloss and color reterain solids; ideal for air-dry coatings require	9	12	Excellent exterior color and gloss re TT-P-28G compliance
10 12 Excellent exterior durability with excent heat resistance 7 10 Excellent exterior durability with excent heat resistance 7 10 Excellent exterior durability with excent heat resistance 6 48 High gloss, good gloss and color retered solids; ideal for air-dry coatings require			
10 12 heat resistance 7 10 Excellent exterior durability with exce 6 48 High gloss, good gloss and color rete solids; ideal for air-dry coatings require	8	12	Excellent exterior durability with excell
High gloss, good gloss and color rete 6 48 solids; ideal for air-dry coatings require	10	12	Excellent exterior durability with excell heat resistance
6 48 solids; ideal for air-dry coatings required in the solids; ideal for air-dry coatings required in the solid sector of	7	10	Excellent exterior durability with excell
6 48 solids; ideal for air-dry coatings requi			
	6	48	High gloss, good gloss and color reter solids; ideal for air-dry coatings requir select latexes



ability for air-dry and bake applications

xy modification; good adhesion, chemical resistance and heat resistance

ity in air-dry applications; can be formulated to meet the requirements of

elopment and overall appearance; excellent color and gloss retention;

air-dry applications

etention; high heat-resistant aluminum coatings, including those requiring

ellent gloss retention and flexibility, meets MIL-E-24635B

ellent gloss retention and flexibility; meets 380 g/L VOC restrictions; good

ellent gloss retention and flexibility; MIL-E-24635A (SH) Type I or Type II

ention with outstanding early water resistance; fast dry at high application iring long-term exterior exposure; compatible with

Alkyds – Flat

PRODUCT	OIL TYPE	% SOLIDS (WEIGHT)	% SOLIDS (VOLUME)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (G - H)	REDUCED VISCOSITY (G - H)
CONVENTIONAL							
DURAMAC® 56-5633	TOFA	31	24.7	7.10	MS	W - Z	E - H @ 25% MS
BECKOSOL® 3101-ZP-40	Soya	40	_	7.41	MO / X	Z ₁ - Z ₃	F - H @ 40% MO

(ARDNER COLOR AXIMUM)	ACID VALUE (SOLID MAX)	
	7	10	Good dry, enamel holdout, and soil re
	4	10	Interior flat finishes

Alkyds – Specialty

PRODUCT	OIL TYPE	% SOLIDS (WEIGHT)	% SOLIDS (VOLUME)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (G - H)	REDUCED VISCOSITY (G - H)
CHLORINE-MODIFIED — HIGH SOLIDS							
BECKOSOL® 91-169	Safflower	76	_	9.55	A100	X - Z ₁	_

PRODUCT	OIL TYPE	% SOLIDS (WEIGHT)	% SOLIDS (VOLUME)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (G - H)			
LATEX MODIFIERS — HIGH SOLIDS LONG OIL									
DURAMAC® 55-5501	Soya	99.25	99.0	8.40	Х	Z ₁ - Z ₃			
DURAMAC® 55-5543	TOFA	100	100.0	8.17	—	Z - Z ₃			
DURAMAC® 201-2516	Soya	100	100.0	8.50	—	Z - Z ₂			

PRODUCT	OIL TYPE	% SOLIDS (WEIGHT)	% SOLIDS (VOLUME)		SOLVENTS	VISCOSITY (G - H)		
OXAZOLINE-MODIFIED — CONVENTIONAL VINYL ESTER								
CHEMACOIL® 240-2101	Linseed	100	100.0	7.80	—	G - I		

GARDN COLO (MAXIM	R	ACID VALUE (SOLID MAX)	
7		6	Air drying fire-resistant coatings; des

	1	
GARDNER COLOR (MAXIMUM)	ACID VALUE (SOLID MAX)	
10	5	Very long oil alkyd modifier for exterio used in oil-based exterior paints and s
8	8	Modifier for adhesion improvement in stains
8	12	Adhesion promoter for exterior latex p VOC of conventional alkyd coatings; h

GARDNER COLOR (MAXIMUM)	ACID VALUE (SOLID MAX)	
10	10	Chain-stopped alkyd with good durabi

FEATURES AND E	BENEFITS	
moval		

FEATURES AND BENEFITS

signed for use in enamels meeting specification MIL-DTL-24607B

FEATURES AND BENEFITS

ior latex paints and stains to improve adhesion to chalky substrates; also I stains

n latex paints; good color retention for exterior solvent-based paints and

paints; can be used as blending resin to increase solids and lower the ; high gloss potential; good color retention

FEATURES AND BENEFITS

bility for air-dry and bake applications

Alkyds – Water-Reducible

PRODUCT	OIL TYPE	% SOLIDS (WEIGHT)	% SOLIDS (VOLUME)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (G - H)	REDUCED VISCOSITY (G - H)
CHAIN-STOPPED							
DURAMAC® 74-7474	Fatty Acid Blend	75	69.1	8.80	s-BuOH / EGBE	Z ₆ - Z _{6+1/2}	U _{1/2} - W _{1/2} @ 60% s-BuOH
DURAMAC® 74-7495	Fatty Acid Blend	70	63.8	8.65	s-BuOH / EGBE	Z _{4+1/2} - Z ₆	_
DURAMAC® 207-1238	TOFA	70	65.0	8.80	EGBE	Z ₅ - Z _{7+1/2}	_
DURAMAC® 207-1551	Soya	75	69.1	8.80	EGBE / s-BuOH	Z ₅ - Z _{7+1/4}	M - Q @ 60% s-BuOH
DURAMAC® 207-3497	Fatty Acid Blend	70	64.3	8.93	EGBE	Z ₄ - Z ₆	X - Z @ 60% EGBE
DURAMAC® 207-3738	TOFA	70	64.0	8.70	EGBE / s-BuOH	Z ₅ - Z ₇	_
KELSOL® 3941-B2G2-70	TOFA	70	63.0	8.70	s-BuOH / PnP	Z _{6+1/4} - Z _{6+1/2}	_
KELSOL® 3941-G4-70	TOFA	70	64.6	8.85	EGBE	Z _{6+1/4} - Z _{6+1/2}	_
KELSOL® 3960-B2G-75	Oxidizing	75	69.4	8.65	s-BuOH / EGBE	Z _{5+1/2} - Z _{6+1/4}	_
KELSOL® 3960-B2G2-75	Oxidizing	75	69.4	8.65	s-BuOH / PnP	Z _{5+1/2} - Z _{6+1/4}	_
KELSOL® 3961-B2G-75	Oxidizing	75	69.0	8.80	s-BuOH / EGBE	Z _{5+3/4} - Z _{6+1/4}	_
KELSOL® 3964-B2G-70	Oxidizing	70	63.0	8.85	s-BuOH / EGBE	Z _{5+3/4} - Z _{6+1/4}	_
KELSOL® 3969-B2G-70	Oxidizing	70	63.0	8.71	s-BuOH / EGBE	Z ₆ - Z _{6+1/2}	_
KELSOL® 3969-G2-70	Oxidizing	70	64.0	8.83	PnP	Z _{6+1/2} - Z _{6+3/4}	_
KELSOL® 3969-G4-70	Oxidizing	70	63.0	8.85	EGBE	Z ₆ - Z _{6+1/2}	_

GARDNER COLOR (MAXIMUM)	ACID VALUE (SOLID MAX)	OH VALUE (ON SOLIDS)	
7	43	82	Workhorse product with e dry rate for air and force- formulated for good dip ta
8	38	72	Superior gloss and gloss and force- dry industrial a dip tank stability
8	38	60	Straight EGBE cut of DU
9	37	82	Excellent gloss, corrosior
8	38	72	Straight EGBE cut of DU
8	38	60	Good cost/performance to resistance, good initial gl
8	36 - 40	86	Economical with good co
8	36 - 40	86	Economical with good co
8	37 - 41	_	Excellent exterior durabili
8	37 - 41	_	Excellent exterior durabil
8	35 - 39	—	Excellent corrosion resist
6	38 - 42	_	Excellent corrosion resist
8	36 - 40	85	Good balance of perform
8	36 - 40	85	Good performance and v
8	36 - 40	85	Good combination of cor

FEATURES AND BENEFITS
ith excellent gloss, salt spray and humidity resistance balanced with good rce-dry industrial DTM applications; compatible with select latexes; can be lip tank stability
oss retention with corrosion and water resistance; very good dry rate for air ial applications; compatible with select latexes; can be formulated for good
DURAMAC® 207-3738 with higher flash point
sion resistance and humidity and water resistance with fast dry rates
DURAMAC® 74-7495 with improved open time and higher flash point
ce balance for air-dry, force-dry or bake systems; excellent corrosion al gloss and package stability
d corrosion resistance
d corrosion resistance; faster dry time than KELSOL® 3940-G4-70
ability
ability
esistance with a very fast dry rate
esistance and hot hardness
ormance properties and value
nd value
corrosion, humidity and water resistance

Alkyds – Water-Reducible

PRODUCT	OIL TYPE	% SOLIDS (WEIGHT)	% SOLIDS (VOLUME)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (G - H)	REDUCED VISCOSITY (G - H)
SHORT OIL							
DURAMAC® 74-7451	TOFA	70	64.9	8.80	EGBE	Z ₄ - Z ₆	W - Y @ 60% EGBE
DURAMAC® 207-3119	TOFA	75	70.4	8.90	EGBE	Z ₅ - Z ₇	_
KELSOL® 3905-B2G-75	Oxidizing	75	69.7	8.55	s-BuOH / EGBE	Z _{4+1/2} - Z _{5+1/2}	_
KELSOL® 3906-B2G-75	Oxidizing	75	69.4	8.65	s-BuOH / EGBE	Z _{5+3/4} - Z _{6+1/4}	_
KELSOL® 3907-B2G2-75	Oxidizing	75	69.5	8.55	s-BuOH / PnP	Z ₆ - Z _{6+1/4}	_
KELSOL® 3907-G4-75	Oxidizing	75	69.5	8.70	EGBE	Z ₆ - Z _{6+1/2}	—
KELSOL® 3912-G4-75	Oxidizing	75	70.6	8.83	EGBE	Z _{5+3/4} - Z _{6+1/4}	_
MEDIUM OIL							
KELSOL® 3902-BG4-75	Oxidizing	75	69.2	8.55	n-BuOH / EGBE	Z _{5+1/2} - Z ₆	_
KELSOL® 3902-G4-70	Oxidizing	70	65.0	8.60	EGBE	Z _{4+1/4} - Z _{5+1/4}	—
KELSOL® 3910-B2G-75	Soya	75	70.0	8.60	s-BuOH / EGBE	Z _{5+1/2} - Z _{6+1/4}	_
KELSOL® 3910-G4-70	Soya	70	65.5	8.70	EGBE	Z _{3+3/4} - Z ₅	_
LONG OIL							
DURAMAC® 216-3610	Linseed / Tung	98	97.6	8.57	X*	Z ₄ - Z ₅	_
KELSOL® 15-173	Linseed	85	83.8	8.10	EGBE	G _{+1/4} - K _{+1/4}	_
KELSOL® 91-403	Linseed	70	63.0	7.60	KWIK-DRY® MS	B - D	—
KELSOL® 580-W-42	Sunflower	42	38.5	8.90	W	700-2500 cps	_
KELSOL® DV-1469-DPM-85	Linseed	85	83.8	8.18	DPM	I - M	_
KELSOL® 3922-HV-G-80	Oxidizing	80	78.2	8.65	PnP / DGBE	Z _{6+1/2} - Z _{6+3/4}	_
KELSOL® DV-5862	Oxidizing	70	68.5	8.50	EGBE	V _{+3/4} - X _{+3/4}	_

	OH VALUE (ON SOLIDS)	ACID VALUE (SOLID MAX)	GARDNER COLOR (MAXIMUM)
Bake enamel formulation applications; provides go	—	50	8
Low VOC; good gloss; e	105	41	8
Excellent blending resin	46	38 - 42	8
Excellent dip tank stabili	46	39 - 43	8
Good exterior durability a	39	39 - 43	8
Good exterior durability a	39	39 - 43	8
Capable of higher solids	60	28 - 32	8
General purpose resin; g	28	38 - 42	8
General purpose resin; g	28	38 - 42	8
Economical with very goo	65	39 - 43	7
Economical with very goo	65	39 - 43	7
Solvent-based stain performance for interior a		85	14
Chemically modified linse paints	_	12	7
Chemically modified linse paints	_	12	7
Cures rapidly whether air	_	12 - 17	Milky
Exterior opaque and sem	—	12	7
Architectural and industria	_	52 - 58	8
Water-dispersed wood sta brushing enamels.	_	52 - 58	8

FEATURES AND BENEFITS

ons comparable to solvent-based formulations for general industrial good hardness, flexibility and durability; dip tank stable

economical with good balance of cost versus performance

n for emulsions

lity

and salt spray; fast dry

and salt spray; fast dry; higher flash point

s at dip tank viscosities

good flexibility

good flexibility

bod flexibility; high OH value for melamine crosslinking

ood flexibility; high OH value for melamine crosslinking

formance in a Water-Reducible polymer; excellent penetration and and exterior wood and other porous substrates; excellent package stability

seed oil. Opaque and semi-transparent stains, artist color, plywood marking

seed oil. Opaque and semi-transparent stains, artist color, plywood marking

ir dried or baked, with or without melamine or urea crosslinkers

mi-transparent stains, artist colors and plywood marking

rial primers; semi-gloss and gloss systems; good shelf stability

stains, exterior trim and trellis enamels, architectural gloss and semi-gloss

Alkyds – Emulsions

PRODUCT	OIL TYPE	% SOLIDS (WEIGHT)	VOC (G/L)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (CPS @ 25° C)
LONG OIL						·
BECKOSOL AQ® 101	Soya	55	14	8.80	W	500 max
BECKOSOL AQ® 112	Linseed	60	24	8.28	W	50 - 2000
MEDIUM OIL						
BECKOSOL AQ® 201	Soya	55	15	8.80	W	100 - 600
BECKOSOL AQ® 205	Soya	55	13	8.80	W	800 max
BECKOSOL AQ® 206	Oxidizing	55	15	8.90	W	50 - 500
CHAIN-STOPPED						
BECKOSOL AQ® 210	Soya	55	11	8.90	W	600 max
BECKOSOL AQ® 400	Soya	51	Negligible	8.95	W	1000 max
SHORT OIL						
BECKOSOL AQ® 405	Oxidizing	57	Negligible	9.00	W	500 max
MODIFIED						
BECKOSOL AQ® 510	Soya	61	Negligible	8.80	W	500 - 1500
BECKOSOL AQ® 521	Oxidizing	51.5	67	8.60	W	450
BECKOSOL AQ® 522	Oxidizing	50	8	8.60	W	600 max

% BIOBASED CONTENT	
61	Good penetration for exterior and interior v
75**	Highest oil length for exterior wood stains;
54**	Economical architectural gloss, semi-gloss stains; APEO free
52	Fast cure; stain blocking primers with good
41	Fast cure; very high gloss for trim enamels
34	Good corrosion resistance for industrial me
40	Shear stable for high pigment loading; non road substrates including concrete, asphal
36**	Good corrosion resistance and gloss for di
50	Acrylic modified; highest solids; architectu
54	Epoxy modified; porous concrete wet look
59	Premium porous concrete and stone wet lo

FEATURES AND BENEFITS

wood stains; APEO free

; APEO free

ss and eggshell wood trim enamels; transparent and semi-transparent

d enamel holdout; high to satin gloss decorative finishes; APEO free

Is; suitable for lower gloss systems; APEO free

netal primers; APEO free

n-highway pavement markings with excellent adhesion to a variety of alt and aggregate; APEO free

direct to metal coatings; APEO free

ural paints and primers; asphalt sealers; APEO free

sealers; APEO free

look sealers; APEO free

Oils

PRODUCT	% SOLIDS (WEIGHT)	% SOLIDS (VOLUME)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (G - H)	GARDNER COLOR (MAXIMUM)
LONG OIL						
ADMEROL® 75-M-70	70	_	7.61	MS	S - V	11
ADMEROL® 351-M-70	70	_	7.80	MS	Z - Z ₂	13
ESSKOL® Y - Z	100	_	8.11	_	Y - Z	8

ACID VALUE (SOLID MAX)	
8	Flexible dicyclopentadiene linseed copolyr and for Federal Specification TT-V-81f Alu
2	Dicyclopentadiene soya copolymer for me
17	Linseed OIL-MODIFIED with maleic anhyc

FEATURES AND BENEFITS

ymer which meets the requirements for many state aluminum paint specs luminum Vehicle and TT-V-121g Spar varnish.

etallic finishes, floor paint, varnishes and sealers

ydride to improve dry time.

Polyesters – Liquid Polyesters

PRODUCT	% SOLIDS (WEIGHT)	% SOLIDS (VOLUME)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (G - H)	REDUCED VISCOSITY (G - H)	GARDNER COLOR (MAXIMUM)
CONVENTIONAL							
POLYMAC® 66-6613	60	51.5	8.75	Х	V - X	D - G @ 45% X	8
POLYMAC® 66-6686	70	61.1	8.75	MAK	Z ₁ - Z ₄	_	5
POLYMAC® 220-1001	65	58.7	9.53	PMA	Z ₃ - Z ₄	_	2
POLYMAC® 220-1935	65	58.6	8.86	X / A150	Z ₁ - Z ₂	D - F @ 50% X	3
POLYMAC® 220-1959	65	58.6	8.86	A150	Z - Z ₂	_	3
AROPLAZ® 1720-Z-60	60	53.5	8.95	PMA / A150 / n-BuOH	H - U _{+3/4}	_	3
AROPLAZ® 5725-Z-65	65	58.0	8.80	A150 / PMA	Z _{+1/2} - Z _{1+1/2}	_	3
AROPLAZ® 6126-Z-65	65	57.2	9.10	A150	Z ₄ - Z ₅	_	3
AROPLAZ® 6129-Z-65	65	57.2	9.10	A150 / EGBE	Z - Z ₂	—	3
HIGH SOLIDS							
POLYMAC® 57-5763	100	100.0	9.70	—	Z ₅ - Z ₆	—	2
POLYMAC® 57-5776	85	82.7	9.30	РМА	Z ₄ - Z ₆	—	3
POLYMAC® 57-5782	95	93.5	8.65	MIBK	Z ₃ - Z ₅	—	2
POLYMAC® 57-5789	85	82.3	9.30	EEP	Z ₃ - Z ₅	A - C @ 60% X	3
POLYMAC® 220-2010	75	69.3	9.04	n-BuAc	Z ₁ - Z ₃	_	2
POLYMAC® 220-2015	75	67.3	8.90	MAK	Z _{1+1/2} - Z _{3+1/2}	_	2
POLYMAC® 220-2880	93	89.3	8.75	n-BuAc	Z - Z ₂	—	2
POLYMAC® 220-2882	97	96.4	8.80	n-BuAc	Z ₅ - Z ₇	_	5
AROPLAZ® 4294	100	100.0	9.64	_	Z _{6+3/4} - Z ₈	_	2
AROPLAZ® 6420	90	86.0	9.30	MAK	Z _{2+1/2} - Z ₅	—	2
AROPLAZ® 6820-K4-90	90	_	8.90	МАК	Z ₁ - Z ₃	_	4

	ACID VALUE (SOLID MAX)	OH VALUE (ON SOLIDS)	EQUIVALENT WEIGHT	
	10	85	660	Excellent balance of flexi
	6	128	440	Excellent hardness and f
	4	173	324	Good gloss and color rete variety of resins
	10	29	1,934	Designed for coil coating resistance and flexibility
	7.5	35	1,603	Designed for coil coating good durability with exce
	5	50	1,122	Silicone-Modified; exterio
	10	30	1,870	Linear saturated coil coat
	10	50	1,122	Linear saturated coil coat overbake color stability; g
	10	40	1,403	Linear saturated coil coati overbake color stability; g
	5	250	224	Lowest VOC possible (18 glycol loss
	10	178	315	Workhorse polyester with for industrial bake and 2k
	6	245	230	Good combination of hard
	10	153	370	Excellent chemical resista 2K applications; can be fo
	9	280	200	Aliphatic polyester with su Skydrol; blending resin fo
	5	280	200	Superior weatherability, d resistance; excellent blen
	10	206	275	Good hardness and chen
	10	206	275	Good hardness and chen
	4	288	195	Aliphatic polyester polyol ideal for two component f
	3	312	180	Aliphatic polyester polyol
	5	142	395	Hydroxyl terminated poly

FEATURES AND BENEFITS

exibility and hardness; good chemical resistance with overbake resistance

d flexibility with glossy appearance and exterior durability

etention; good chemical and abrasion resistance; compatible with a wide

ngs; good chemical resistance and hardness; excellent overbake y

ngs; good flexibility, gloss, flow and leveling, and chemical resistance; cellent overbake resistance

rior coil coatings requiring the ultimate in durability

bating polyester; high hardness with good flexibility; good weatherability

pating polyester; excellent flexibility with good hardness development and ; good gloss retention

ating polyester; excellent flexibility with good hardness development and good gloss retention

180 g/L); excellent hardness; typical analysis will show 95% NVM due to

ith excellent chemical resistance, durability, hardness and good flexibility 2K applications; can be formulated into FDA 175.300 approvable coatings

ardness, flexibility and chemical resistance for industrial bake applications

stance, weathering and flexibility; good hardness for industrial bake and formulated to 340 g/L VOC

superior weatherability and excellent chemical resistance, including for acrylics and polyesters; can be formulated to 340 g/L VOC

, durability and good balance of film properties, including Skydrol ending resin for acrylics

emical resistance for industrial bake applications

emical resistance for industrial bake applications

ol with excellent gloss and color retention; excellent chemical resistance; it flooring topcoats

ol with excellent chemical resistance and exterior durability; branched

lyester designed to be crosslinked in industrial baking enamels

Polyesters – Liquid Polyesters

PRODUCT	% SOLIDS (WEIGHT)	DENSITY (LBS/GAL)	РН	PARTICLE SIZE (NM)	VISCOSITY (CPS @ 25° C)	GARDNER COLOR (MAXIMUM)
DISPERSIONS						
HYDREAU® 290-4156	30	8.75	7.5	—	1,000 - 3,000	—
HYDREAU® 290-4254	45	9.05	7.5	30		2

2		OH VALUE	
	(SOLID MAX)	(ON SOLIDS)	
	53 - 58	164	Surfactant-free polyester dispersion fo zero VOC; excellent gloss developme
	45	72	Surfactant-free polyester dispersion for resistance

PRODUCT	% SOLIDS (WEIGHT)	DENSITY (LBS/GAL)	РН	SOLVENTS	VISCOSITY (G - H)	GARDNER COLOR (MAXIMUM)
WATER-REDUCIBLE						
POLYMAC® 72-7203	75	67.9	8.90	s-BuOH / EGBE	Z ₃ - Z ₅	3
POLYMAC® 220-3204	75	69.3	9.20	EGBE	Z ₄ - Z ₆	3
AROPLAZ® 5293-B-75	75	69.0	8.97	n-BuOH	Y _{+1/2} - Z _{1+3/4}	3
AROPLAZ® 7070-B2G-85	85	80.0	9.30	s-BuOH / EGBE	Z ₇₊₃₋₄ - Z _{8+3/4}	3

ACID VALUE (SOLID MAX)	OH VALUE (ON SOLIDS)	EQUIVALENT WEIGHT	
60	64	876	Excellent color retention, industrial baking enamels
60	64	876	Designed for use in indus
57 - 63	180	312	Excellent cure response resistance, stain and che
56 - 68	75	752	High gloss, color and glo

FEATURES AND BENEFITS

for 2K coating systems with low isocyanate demand; can achieve near ent and good film hardness

for baking systems; excellent adhesion to metal, flexibility and chemical

FEATURES AND BENEFITS

n, hardness and flexibility balanced with economics; workhorse for els

ustrial enamels; HAPS-free; excellent exterior durability

e with 20% to 30% amino crosslinker; excellent flexibility, impact hemical resistance

loss retention, good flexibility, chemical resistance

Epoxies – Resins

PRODUCT	ТҮРЕ	% SOLIDS (WEIGHT)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (CPS @ 25° C)	GARDNER COLOR (MAXIMUM)		
REACTIVE DILUENTS	REACTIVE DILUENTS							
EPOTUF® 37-051	Aliphatic Polyfunctional	100	8.58	—	200 - 320	1		
EPOTUF® 37-058	Aliphatic Monofunctional	100	7.47	—	20 max	1		
SOLID RESIN								
EPOTUF® 37-002	Solid Bis-A Resin	100	9.90	—	250 - 340 @ 40% DEG	3		
LIQUID RESIN								
EPOTUF® 37-138	Liquid Bis-F Resin	100	9.93	_	3000 - 4200	2		
EPOTUF® 37-140	Liquid Bis-A Resin	100	9.70	—	10,500 - 13,500	1		
EPOTUF® 91-836	Epoxy Novolac	75	9.13	MAK	330 - 1,000	3		
WATER-BORNE LIQUID	RESIN							
EPOTUF® 37-143	Liquid Bis-A Resin Dispersion	78	9.30	W	2,000 - 4,000	Milky		
EPOTUF® 37-149	Type 7 Epoxy Dispersion	50	9.15	W / EGBD	1,000 - 3,000	Milky		
DILUTED RESINS								
EPOTUF® 37-100	Aliphatic Polyfunctional	100	9.40	_	2,000 - 5,000	3		
EPOTUF® 37-127	Aliphatic Monofunctional	100	9.20	—	500 - 800	1		
EPOTUF® 37-128	Aromatic Monofunctional	100	9.30	_	500 - 1,000	2		
EPOTUF® 37-130	Butyl Glycidyl Ether	100	9.45	—	500 - 700	2		
SOLVENT-CUT RESINS								
EPOTUF® 38-501	Туре 1	75	9.00	MIBK / X	4,630 - 14,800	3		
EPOTUF® 38-502	Туре 1	75	9.35	EEP	6,400 - 18,000	3		
EPOTUF® 38-507	Туре 1	75	9.10	Т	4,630 - 14,800	3		

EEW OR ACID (SOLID)	
EEW = 665	High molecular weight aliphatic polyfunctiona and toughness; extends pot life; low viscosity
EEW = 295	Aliphatic monofunctional epoxy diluent based toxicity; allows high filler levels
EEW = 615	Solid glycidyl ether of Bisphenol A epoxy resi
EEW = 170	Undiluted liquid epoxy resin based on diglycic EPOTUF® 37-140; improves organic acid an crystallization potential
EEW = 185	Standard undiluted liquid epoxy resin based or resistance properties; high heat distortion ten
EEW = 215	Modified epoxy Novolac; excellent corrosion
EEW = 200	Dispersion of liquid epoxy resin; can formulat with EPOTUF® 37-680 and 37-685; freeze-th
HEW = 220	High performance protective coatings with me and corrosion resistance
EEW = 220	100% reactive Bis-A epoxy based resin dilute pot life; good adhesion; medium viscosity
EEW = 200	100% reactive Bis-A epoxy based resin dilute flexibility; low color and viscosity
EEW = 200	100% reactive Bis-A epoxy based resin dilute penetration; high filler loading; low viscosity
EEW = 185	100% reactive Bis-A epoxy based resin dilute loading; good penetration; low viscosity
EEW = 515	Solvent cut solid Bis-A epoxy resin; high mole corrosion and chemical resistance
EEW = 465	Solvent cut solid Bis-A epoxy resin; high mole corrosion and chemical resistance
EEW = 480	Solvent cut solid Bis-A epoxy resin; fast dry; or resistance

FEATURES AND BENEFITS

al epoxy resin used as a modifier; improves adhesion; imparts flexibility ty

ed on Alkyl Glycidyl Ether C12-C14; low viscosity; low volatility and

sin. Good chemical and corrosion resistance

cidyl ether of Bisphenol-F (Bis-F); used alone or as a modifier for nd solvent resistance; slows gel and thin film set times; greatly reduced

on Bisphenol-A (Bis-A); industry workhorse with good reactivity and mperature

and chemical resistance; highest heat distortion temperature

ate compliant two component water-borne epoxy coatings when cured thaw stable

nelamine for bake or isocyanate for ambient cure. Good adhesion to steel

ted 20% by weight with EPOTUF® 37-051; improves flexibility; extends

ted 20% by weight with EPOTUF® 37-058; excellent toughness and

ted 35% by weight with Phenol Glycidyl Ether C8-C10; excellent

ted 14% by weight with Butyl Glycidyl Ether; excellent flexibility; high filler

lecular weight; fast dry; excellent toughness and impact resistance; good

lecular weight; fast dry; excellent toughness and impact resistance; good

good flexibility and impact resistance; good corrosion and chemical

Epoxies – Resins

PRODUCT	ΤΥΡΕ	% SOLIDS (WEIGHT)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (CPS @ 25° C)	GARDNER COLOR (MAXIMUM)
MODIFIED RESINS						
EPOTUF® 37-151	Flexible	100	8.90	—	30,000 - 70,000	5
EPOTUF® 95-473	Urethane	60	8.60	MIBK / X / T / Cyclohexanone	550 - 1,290	3
EPOTUF® 98-411	Flexible	75	8.60	MEK	1,000 - 1,800	6
EPOTUF® G272-100	Elastomeric	100	8.97	_	500,000 - 900,000	14
EPOTUF® G293-100	CTBN	100	8.80	—	140,000 - 250,000	10
EPOTUF® G519-K2-70	CTBN	70	8.60	MIBK	4,000 - 10,000	9
SOLVENT-CUT EPOXY	ESTERS					
EPOTUF® 38-406	Rosin Modified	60	7.70	MS	2,700 - 4,630	8
EPOTUF® 91-531	Epoxy Ester	55	8.10	Х	1,500 - 2,700	6
EPOTUF® 91-853	Epoxy Ester	50	8.95	PCBTF / A100	1,000 - 2,600	10
REZIMAC® 12-1204	Epoxy Ester	60	7.75	MS	2,500 - 4,500	8
REZIMAC® 12-1222	Epoxy Ester	50	8.00	Х	1,000 - 1,700	4
REZIMAC® 57-5839	Epoxy Ester	70	8.40	n-BuAc	1,300 - 2,300	8
WATER-REDUCIBLE EP	OXY ESTERS					
EPOTUF® 38-690	Acrylic Modified	70	8.40	EGBE	14,800 - 38,800	7
EPOTUF® 38-692	Epoxy Ester	70	8.70	EGBE	9,000 - 15,000	8
EPOTUF® 38-699	Epoxy Ester	70	8.65	EGBE	9,000 - 15,500	8
EPOTUF® 91-263	Acrylic Modified	70	8.40	PnP	35,000 - 65,000	7
REZIMAC® 73-7331	Epoxy Ester	70	8.40	EGBE	12,500 - 18,000	8
WATER-DISPERSED EP	OXY ESTERS	·			- 	
EPOTUF® 38-694	Aqueous Dispersion	40	8.41	W / PnP / TEA	1,000 - 4,000	Milky
EPOTUF® 38-698	Acrylic Modified Aqueous Dispersion	42	8.50	W / PnP / TEA	500 max	Milky

EEW OR ACID (SOLID)	
EEW = 500	Modifier for epoxies, 2K urethanes and bakin fast viscosity reduction curve; elongation up t
EEW = 325	Urethane modified to provide improved adhered fluids
EEW = 485	Elastomer modified resin that produces flexib
EEW = 340	Elastomer modified resin designed as an add and to reduce brittleness
EEW = 340	Elastomer modified resin that produces flexib
EEW = 680	Elastomer modified resin that produces flexib
AV = 9 max	Good adhesion to steel; excellent toughness
AV = 6 max	Good hardness and abrasion resistance; goo
AV - 8 max	Metal primers, rail car; reduced VOC due to e
AV = 10 max	Good hardness and adhesion; good abrasior
AV = 3 max	Good chemical and corrosion resistance; goo
AV = 3 max	HAPS-free; good corrosion and humidity resi
AV = 54 - 60	Compatible with acrylic emulsions to improve hardness and adhesion
AV = 45 - 49	Fast air or force dry primer applications; good pigments
AV = 50 - 55	Fast air or force dry primer applications; good pigments
AV = 52 - 62	HAPS-free; low VOC capability; excellent adl corrosion resistance
AV = 69 max	Fast dry; good corrosion and humidity resista
_	Pre-neutralized in HAPS-free solvents; low V resistance; excellent adhesion to wood, conc
—	Pre-neutralized in HAPS-free solvents; low V good early water resistance

FEATURES AND BENEFITS

ing polyester systems to improve flexibility, adhesion and weathering; very to 25%

esion, chemical and solvent resistance including aerospace hydraulic

ble, impact resistant films when cured with conventional curing agents

lditive or modifier to toughen epoxies, epoxy novolacs and PVC plastisols

ible, impact resistant films when cured with conventional curing agents

ble, impact resistant films when cured with conventional curing agents

s and abrasion resistance; good alkali resistance

od resistance to alkali, detergents, water and yellowing

exempt solvent content

n and alkali resistance

ood hardness and adhesion

sistance; very good gasoline resistance

ve corrosion resistance; fast air or force dry applications; excellent gloss,

od corrosion resistance in thin films; good compatibility with inhibitive

od corrosion resistance in thin films; good compatibility with inhibitive

thesion to a variety of substrates; fast air or force dry primers; good

ance; good topcoat lifting resistance; adhesion to plastics

VOC capability; excellent hydrolytic stability; excellent corrosion crete and metal

VOC capability; bonds topcoat to concrete while increasing adhesion;

Epoxies – Curing Agents

PRODUCT	ТҮРЕ	% SOLIDS (WEIGHT)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (CPS @ 25° C)	GARDNER COLOR (MAXIMUM)
ALIPHATIC AMINES						
EPOTUF® 37-606	Adduct	100	8.15	_	200 - 400	5
EPOTUF® 37-611	Modified	100	8.05	—	5,500 - 8,500	3
EPOTUF® 37-614	Mannich Base	100	9.00	—	3,500 - 5,500	7
EPOTUF® 37-667	Modified	100	8.00	_	1,200 - 1,800	2
CYCLOALIPHATIC AMIN	NES					
EPOTUF® 37-601	Adduct	100*	8.40	—	200 - 400	3
EPOTUF® 37-607	Adduct	100*	8.65	_	300 - 450	5
EPOTUF® 37-703	Modified	100*	8.60	_	40 - 100	1
WATER-BORNE POLYA	MINE ADDUCTS					
EPOTUF® 37-680	Microgel Polyamine Adduct	42	8.90	W / EGPE	40 - 100	Milky
EPOTUF® 37-685	Microgel Polyamine Adduct	50	8.90	W / PGME	250 max	Milky
AMIDOAMINES						
EPOTUF® 37-620	Amide / Imidazoline	100	7.90	_	400 - 700	10
POLYAMIDES						
EPOTUF® 37-612	Amide / Imidazoline	100	7.90	_	10,500 - 19,000	10
EPOTUF® 37-618	Amide	70	7.70	Х	884 - 2,290	12
EPOTUF® 37-621	Amide	60	7.49	IPA / T	1,000 - 2,800	11
EPOTUF® 37-625	Amide / Imidazoline	100	8.00	_	30,000 - 45,000	10
EPOTUF® 37-640	Imidazoline / Amide	100	8.30	_	9,000 - 15,000	10
EPOTUF® 37-650	Modified Amide / Imidazoline	100*	8.40	_	3,000 - 6,500	12

AHEW (SOLIDS)	AMINE VALUE (MG KOH/GM)	
85	365	Moderate pot life; good gl
189	315	Fast cure; good moisture
50	760	Good cure speed at low to with epoxy novolacs
157	267	Fast cure; good moisture 1:1 mix ratio by volume w
85	350	Based on isophorone diar mechanical strength chara
85	385	Good acid resistance and improve chemical and/or l
93	320	Good color stability; high humidity and low tempera
563	80	Long pot life and fast dry resistance; excellent eleva
160	334	Excellent corrosion resista <100 g/L VOC capability;
94	425	Good general purpose an bonds well to damp concr
130	340	High reactivity; low crysta
150	240	Provides flexibility, long po suitable for a wide variety
500	90	High molecular weight; lou resistance; good impact re
120	350	Good balance of hardnes impact resistance; wide m
100	385	High imidazoline content;
130	230	No induction time; perform systems; low viscosity

FFA	TURES	ENEEIT	S
164			•

gloss and blush resistant films; low viscosity

e and blush resistance; improves resiliency and flexibility of other amines

temperature and/or high humidity; good chemical resistance; compatible

e and blush resistance; improves resiliency and flexibility of other amines; with EPOTUF® 37-140

amine intended for room temp curing; excellent chemical resistance; good iracteristics; light color; low viscosity

d adhesion to damp concrete; can be blended with aliphatic amines to low temperature performance

n gloss and carbamation resistance under adverse conditions of high rature; very low viscosity

/ time when cured with EPOTUF® 37-143; low odor; good yellowing vated temperature and freeze/thaw stability

tance on metal substrates when cured with EPOTUF® 37-143; low odor; ; high hardness; wide recoat window; good in-can coating stability

midoamine; wide range of mix ratios; capable of high pigment loading; crete; resilient and impact resistant

allization potential; low exudation; moderate viscosity

bot life and good overall properties with solid epoxy resin; fast dry; y of substrates

ong pot life; excellent adhesion to steel and concrete; excellent water resistance

ss and flexibility; excellent corrosion resistance; good adhesion and mix ratio; medium viscosity

t; lower viscosity and longer pot life than EPOTUF® 37-625

mance similar to high molecular weight traditional polyamide/solid epoxy

2K Non-Isocyanate

P 3

PRODUCT	ТҮРЕ	% SOLIDS (WEIGHT)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (STOKES)	VISCOSITY (G - H)
EPOXY RESINS						
AROFLINT® 608	Oxirane-Modified Ester	100	8.35	_	11	U _{+1/4} - X _{+1/2}
PRODUCT	ТҮРЕ	% SOLIDS (WEIGHT)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (STOKES)	VISCOSITY (G - H)
POLYESTER RESINS						
AROFLINT® 809	Acid Functional Polyester	71	10.85	MAK / PGME / IPA	2 - 6	H - T _{+3/4}
AROFLINT® 252-Z1-60	Acid Functional Polyester	60	9.47	MS / IBIB / A100	2.05	F _{+3/4} - J
AROFLINT® 404-XX-60	Acid Functional Polyester	60	10.05	n-BuAc / VM&P / n-BuOH / EB	5.5	R - U

EEW (SOLID)	
285	Aliphatic epoxy used to fo and transportation coating
AEW (SOLID)	
432	HAPS compliant, low VOC
524	Flexibility, durability
351	Adhesion, hardness, corro
	(SOLID) 285 <u>AEW</u> (SOLID) 432 524

FEATURES AND BENEFITS

formulate 2K coatings with excellent weatherability; used for agricultural ngs

FEATURES AND BENEFITS

DC capability, durability

rosion resistance

Urethanes – Solvent-Borne

PRODUCT	OIL TYPE	% SOLIDS (WEIGHT)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (STOKES)	REDUCED VISCOSITY (STOKES)
SOLVENT-BORNE OIL-	IODIFIED URETHAI	NES				·
UROTUF® F47-M-60	Soybean	60	7.60	MS	27.0 - 46.0	0.60 - 1.25 @ 50% NV
UROTUF® F48-M-50	Soybean	50	7.45	MS	28.0 - 48.0	0.50 - 0.85 @ 40% NV
UROTUF® F48-E1-40	Soybean	40	10.10	PCBTF	18.0 - 36.0	2.00 - 2.50 @ 35% NV
UROTUF® F77-M-60	Linseed	60	7.60	MS	17.6 - 28.0	4.0 - 6.0 @ 45% NV
UROTUF® F77-E1-50	Linseed	50	9.75	PCBTF	7.0 - 11.0	2.00 - 2.50 @ 45% NV
UROTUF® F78-M-50	Linseed	50	7.45	MS	27.0 - 46.3	0.50 - 0.80 @ 40% NV
UROTUF® F78-E1-40	Linseed	40	10.10	PCBTF	13.0 - 20.0	2.00 - 2.50 @ 35% NV
UROTUF® F78-50X	Linseed	50	8.05	х	27.0 - 46.0	0.50 - 0.85 @ 40% NV
UROTUF® F78-50X EU	Linseed	50	8.05	х	27.0 - 46.0	0.50 - 0.85 @ 40% NV
UROTUF® F81-M-80	Sunflower	80	7.70	MS	2.0 - 2.5	N/A
UROTUF® F82-M-62	Linseed	62	7.57	MS	1.6 - 2.5	N/A
UROTUF® F83-M-75	Proprietary	75	7.85	MS	50.0 - 75.0	2.00 - 2.50 @ 62.5% NV
UROTUF® F84-E1-55	Soybean	55	9.60	PCBTF	50.0 - 80.0	2.50 - 3.00 @ 45% NV
UROTUF® F87-M-80	Proprietary	80	7.90	MS	27.0 - 46.0	1.00 - 2.00 @ 64% NV
UROTUF® F89-E3M-55	Linseed	55	7.60	VMS / MS	2.5 - 3.2	0.65 - 0.85 @ 46.5% NV in VMS
UROTUF® F90-E3M-55	Soybean	55	7.60	VMS / MS	2.7 - 3.7	0.65 - 0.85 @ 46.5% NV in VMS
UROTUF® F275-M-75	Linseed	75	7.88	LAMS	40.0 - 61.5	0.75 - 1.00 @ 50% NV in LAMS / VMS

GARDNER COLOR (MAXIMUM)	ACID VALUE (SOLID MAX)	RESIN VOC (G/L)	FEATURES AND BENEFITS
6.0	2.0	450	Low film color, good general purpose OMU
4.0	2.0	550	Low film color, fast dry, easily flattened, good hardness
4.0	1.0	0	Zero VOC Oxsol 100 version of UROTUF® F48-M-50
6.0	1.7	450	Good balance of overall properties, good general purpose OMU
5.0	1.0	0	Zero VOC Oxsol 100 version or UROTUF® F77-M-60
5.0	2.0	550	Fast dry, good through cure, easily flattened, good hardness
5.0	1.0	0	Zero VOC Oxsol 100 version of UROTUF® F78-M-50
5.0	2.0	480	Xylene version of UROTUF® F78-M-50
5.0	2.0	480	REACH compliant version of UROTUF® F78-50X
4.0	1.0	185	Low viscosity, easy to use modifier for conventional SB OMU
6.0	0.3	340	350 g/L VOC compliant
6.0	1.0	350	350 g/L VOC compliant, amber film
5.0	1.0	0	Zero VOC, modifier for conventional SB OMU
6.0	2.5	350	350 g/L VOC compliant, modifier for conventional SB OMU, fast viscosity reduction
6.0	1.0	350	350 g/L VOC compliant using exempt solvent, high gloss
5.0	1.0	350	350 g/L VOC compliant using exempt solvent, high gloss, low film color
6.0	2.0	240	275 g/L VOC compliant using exempt solvent

Urethanes – Solvent-Borne

PRODUCT	OIL TYPE	% SOLIDS (WEIGHT)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (STOKES)	REDUCED VISCOSITY (STOKES)
SOLVENT-BORNE OIL-N		DS				
CARBAMAC® 43-4310	Linseed	60	7.70	MS	22.7 - 46.3	0.65 - 1.25 @ 48% NV
CARBAMAC® 43-4333	Soybean	60	7.70	MS	22.7 - 46.3	0.40 - 0.80 @ 45% NV
CARBAMAC® 43-4345	Soybean	60	7.65	MS	17.6 - 36.2	0.65 - 1.25 @ 50% NV
CARBAMAC® 43-4355	Soybean	55	7.59	MS	10.7 - 20.0	1.25 - 2.25 @ 48% NV
CARBAMAC® 57-4372	Soybean	70	7.70	MS	8.8 - 12.9	1.65 - 2.25 @ 60% NV
CARBAMAC® 57-5794	Soybean	80	8.04	MS	22.7 - 36.2	1.65 - 2.25 @ 64% NV
CARBAMAC® 57-5849	Sunflower	80	7.80	MS	2.0 - 2.5	_
UROTUF® F14-M-55	Soybean	55	7.62	MS	11.0 - 18.0	0.85 - 1.65 @ 48% NV
UROTUF® F17-M-60	Soybean	60	7.64	MS	6.0 - 9.0	1.00 - 1.40 @ 50% NV
UROTUF® F19-M-50	Sunflower	50	7.55	MS	23.0 - 36.0	1.00 - 1.25 @ 40% NV
UROTUF® F21-M-50	Soybean	50	7.55	MS	12.0 - 20.0	0.50 - 0.85 @ 40% NV
UROTUF® F22-M-60	Soybean	60	7.55	MS	7.4 - 10.7	1.65 - 2.25 @ 55% NV
UROTUF® F23-M-50	Soybean	50	7.45	MS	22.0 - 46.0	0.65 - 0.85 @ 40% NV
UROTUF® F7071S	Soybean	45	7.30	MS	1.2 - 2.0	N/A
UROTUF® AC-318	Soybean	60	7.70	MS	17.6 - 27.0	0.85 - 1.25 @ 40% NV

PRODUCT	% SOLIDS (WEIGHT)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (STOKES)	GARDNER COLOR (MAXIMUM)	MODULUS @ 100% (PSI)		
SOLVENT-BORNE LACQUERS: 1K								
UROTUF® L06-30S	30	7.47	T / IPA	80.0 - 120.0	1.0	800		
UROTUF® L61-S-30	30	7.48	T / IPA	60.0 - 100.0	1.0	1,300		
UROTUF® L89-30S	30	7.45	T / IPA	80.0 - 115.0	1.0	1,900		

GARDNER COLOR (MAXIMUM)	ACID VALUE (SOLID MAX)	RESIN VOC (G/L)	FEATURES AND BENEFITS			
6.0	7.0	370	Good hardness and abrasion resistance, fast through dry, good recoat time			
6.0	3.0	370	Good hardness and abrasion resistance, fast through dry, good recoat time			
6.0	5.0	370	Excellent dry and wear characteristics			
4.0	4.0	410	Good viscosity for higher build clearcoats, good recoat time			
8.0	4.0	280	High solids, aliphatic, excellent exterior durability, good hardness and flexibility			
6.0	3.0	185	High solids, high gloss, good abrasion resistance and hardness			
4.0	1.0	185	Designed as a modified for conventional systems, extremely low viscosity			
5.0	5.0	410	Fast dry, high hardness, excellent flow and leveling			
6.0	2.0	370	Good flow and leveling, good mar and abrasion resistance			
5.0	3.0	450	Excellent mar and abrasion resistance, good exterior durability			
4.0	2.0	450	Fast dry, excellent hardness and flexibility, good mar and abrasion resistance			
5.0	1.2	370	Good flow and leveling, good flexibility			
5.0	2.0	450	Fast dry, good hardness			
7.0	3.0	480	Good exterior durability and color retention			
5.0	1.7	370	Easily pigmented, good compatibility with drying oils			
ELONGATION (%)	TENSILE STRENGTH	RESIN VOC (g/L)	FEATURES AND BENEFITS			

ELONGATION (%)	TENSILE STRENGTH (PSI)	RESIN VOC (g/L)	
520	6,000	630	Low temperature flexibil
500	5,000	630	Non-yellowing, good ad
350	5,500	625	Non-yellowing, good ad

oility, good adhesion to flexible substrates

thesion to flexible substrates

dhesion to vinyl substrates, medium hardness

Urethanes – Moisture-Cure

PRODUCT	% SOLIDS (WEIGHT)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (STOKES)	GARDNER COLOR (MAXIMUM)	% NCO (SOLID)	% FREE MONOMER	
AROMATIC MOISTURE CURE URETHANE PREPOLYMERS								
UROTUF® M21-X-40	40	8.01	Х	0.65 - 1.25	1.0	5.1 - 7.4	1.0	
UROTUF® M26-E2X-64	64	8.60	t-BuAc / X	0.5 - 2.0	1.0	7.5 - 8.9	2.0	
UROTUF® M80-A6X-48	48	8.60	PMA / X	0.3 - 0.8	3.0	9.0 - 10.5	1.5	

TACK FREE (HOURS @	SWARD HARDNESS	RESIN VOC	
77° F)	(OSCILLATIONS)	(G/L)	
2.5	26	580	Good wear, abrasio
4.0	20	340	Lowest VOC versior
1.0	50	610	High hardness and r

Urethanes – Water-Borne

PRODUCT	OIL TYPE	% SOLIDS (WEIGHT)	DENSITY (LBS/GAL)	COSOLVENT	VISCOSITY (CPS @ 25° C)	RESIN VOC (G/L)				
SELF-CROSSLINKING POLYURETHANE DISPERSIONS										
UROTUF® F96-MPW-32	Linseed	32	8.50	NMP	50 - 300	188				
UROTUF® F97-MPW-33	Proprietary	33	8.50	NMP	50 - 300	178				
UROTUF® F97A	Proprietary	33	8.50	NMP	50 - 5,000	180				
UROTUF® F98-MPW-31	Proprietary	31	8.50	NMP	50 - 150	180				
UROTUF® F982-MPW-33	Proprietary	33	8.50	NMP	50 - 300	180				
UROTUF® F100-W-36	Proprietary	36	8.55	—	100 - 3,000	41				
UROTUF® F101-MPW-45	Soybean	45	8.55	NMP	200 - 1,500	137				
UROTUF® F102-W-36	Proprietary	36	8.50	—	100 - 1,000	55				
UROTUF® F103-W-36	Soybean	36	8.52	—	50 - 1,000	50				
UROTUF® F105-MPW-45	Soybean	45	8.60	NMP	500 - 1,200	135				
UROTUF® F108-T8W-45	Soybean	45	8.60	ТРМ	100 - 1,000	95				
UROTUF® F600-W-40	Proprietary	40	8.70	DPM	50 - 500	96				
UROTUF® F625-W-43	Proprietary	43	8.69	_	20 - 200	45				
UROTUF® F630-W-36	Proprietary	36	8.60	—	25 - 250	35				

% BIOBASED CONTENT	SWARD HARDNESS (OSCILLATIONS)	GARDNER DRY HARD (HOUR:MINUTE)	
35	32	1:00	Amber film, ex
39	36	0:50	Less amber fil
38	N/A	N/A	TEA free version
39	36	1:00	Manganese ca
39	36	0:55	Iron catalyzed
52*	36	0:35	NMP & cosolv
40	34	1:05	High solids, lov
52*	36	0:55	NMP & cosolv
47**	46	1:25	NMP & cosolv
40	32	0:55	Precatalyzed,
44	30	0:20	NMP free, high
43*	28	0:30	NMP free urall
49**	16	0:53	NMP & cosolv
53**	30	0:50	NMP & cosolve

FEATURES AND BENEFITS

ion and chemical resistance

on of UROTUF® M21-X-40

d mar resistance

FEATURES AND BENEFITS

xcellent chemical & solvent resistance

ilm than UROTUF® F96-MPW-32, high mar & chemical resistance

sion of UROTUF® F97-MPW-33 for ink

atalyzed version of UROTUF® F97-MPW-33

d version of UROTUF® F97-MPW-33

vent free version of UROTUF® F97-MPW-33

ower VOC than UROTUF® F96-MPW-32 & UROTUF® F97-MPW-33

vent free, iron catalyzed version of UROTUF® F100-W-36

vent free, high film hardness

, high solids

h solids, low VOC, fast dry

lkyd, good adhesion & chemical resistance for garage floor coatings

vent free uralkyd, requires no cosolvent

vent free uralkyd, harder version of UROTUF® F625-W-43

Urethanes – Water-Borne

PRODUCT	% SOLIDS (WEIGHT)	DENSITY (LBS/GAL)	COSOLVENT	VISCOSITY (CPS @ 25° C)	RESIN VOC (G/L)	MODULUS @ 100% (PSI)			
THERMOPLASTIC POLYURETHANE DISPERSIONS									
UROTUF® L51	30	8.75	NMP	20 - 80	379	4,000			
UROTUF® L51-35	35	8.84	NMP	50 - 1,000	410	4,900			
UROTUF® L522-W-40	40	8.75		50 - 500	35	2,029			
UROTUF® L53-MPW-30	30	8.70	NMP	30 - 100	353	600			
UROTUF® L54-MPW-32	32	8.74	NMP	500 - 2,000	390	3,000			
UROTUF® L56-W-38	38	8.50		50 - 500	32	350			
UROTUF® L57-MPW-35	35	8.80	NMP	20 - 100	241	4,000			
UROTUF® L59-40	40	8.85	NMP	200 - 1,200	197	500			
UROTUF® L62-G8W-40	40	8.80	DPDME	500 - 2,000	174	650			
UROTUF® L63-MPW-38	38	8.80	NMP	50 - 300	273	4,500			
UROTUF® L63-W-38	38	8.80		50 - 300	47	3,300			
UROTUF® L64-W-62	62	8.85		50 - 1,000	15	240			
UROTUF® L66-W-62	62	9.00		30 - 800	10	115			

PRODUCT	% SOLIDS (WEIGHT)	DENSITY (LBS/GAL)	COSOLVENT	VISCOSITY (CPS @ 25° C)	RESIN VOC (G/L)	GLOSS (60° / 20°)	
UV CURABLE POLYURETHANE DISPERSIONS							
UROTUF® E300-W-40	40	8.85	_	100 - 1,200	44	96 / 84	

ELONGATION (%)	SHORE HARDNESS (SHORE A / SHORE)	TENSILE STRENGTH (PSI)	
150	Shore D 60	5,000	Excellent har
100	Shore D 60	4,900	Higher solids
366	Shore A 85	4,092	NMP & cosol
550	Shore A 85	4,600	Highly flexible
260	Shore D 55	6,000	Water-white
700	Shore A 67	4,300	NMP & cosol
220	Shore A 85	6,200	HAPS-free, h
810	Shore A 68	6,500	Soft, highly fl
500	Shore A 76	860	NMP free, Ol
200	Shore D 65	5,800	High solids, ł
345	Shore D 62	6,600	NMP & cosol
800	Shore A 58	4,100	NMP & solve
>1,000	Shore A 52	>750	NMP & solve
		GARDNER DRY	
IMPACT (IN LBS.)	SWARD HARDNESS (OSCILLATIONS)	HARD (HOUR:MINUTE)	

IMPACT (IN LBS.)	SWARD HARDNESS (OSCILLATIONS)	GARDNER DRY HARD (HOUR:MINUTE)	
160 / 160	36	1:00	NMP & cosolv

FEATURES AND BENEFITS

ardness & superior abrasion resistance

s version of UROTUF® L51, good chemical resistance

olvent free version of UROTUF® L522-MPW-40, requires no cosolvent

le films, excellent abrasion resistance

dispersion, high acid content for crosslinking

lvent free version of UROTUF® L56-MPW-36, requires no cosolvent

high film hardness, good abrasion resistance

flexible films, blending resin to improve flexibility

OH functional, very low gloss, highly flexible films

high film hardness, high gloss

olvent free version of UROTUF® L63-MPW-38

ent free, requires no cosolvent, good heat color stability, heat sealable

vent free, very soft modifier to increase elongation

FEATURES AND BENEFITS

lvent free, fast tack free before UV cure, good mar resistance

Solution Acrylics

PRODUCT	% SOLIDS (WEIGHT)	% SOLIDS (VOLUME)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (G - H)	REDUCED VISCOSITY (G - H)	GARDNER COLOR / APHA (MAXIMUM)	ACID VALUE (SOLID MAX)	
THERMOPLASTIC - COI	THERMOPLASTIC CONVENTIONAL								
ACRYLAMAC® 16-0163	45	38.0	8.13	Т	Z ₁ - Z ₄	—	1 / 150	3	
ACRYLAMAC® 16-1066	50	44.0	8.10	Т	W - Z	_	1 / 150	4	
ACRYLAMAC® 231-1067	45	39.0	7.24	VM&P / X	W - Z ₁	_	2 / 300	6	
ACRYLAMAC® 231-1195	50	32.0	7.20	Isopar G	W - Y	—	1 / 150	_	
ACRYLAMAC® 231-1266	50	44.5	8.10	iso-BuAc	Z ₂ - Z ₅	_	1 / 150	4	
ACRYLAMAC® 231-1366	50	44.3	8.25	n-BuAc	Z - Z ₃	_	1 / 150	6	
THERMOSET - CONVEN	ITIONAL								
ACRYLAMAC® 17-1100	60	54.3	8.65	PMA / T	Z ₁ - Z ₄	—	1 / 150	15	
ACRYLAMAC® 232-1321	65	61.5	8.70	PMA / n-BuOH	Z ₃ - Z ₅	C - E @ 40% PMA	1 / 150	20	
ACRYLAMAC® 232-1375	70	64.9	8.61	n-BuAc	Z ₃ - Z ₅	D - F @ 50% n-BuAc	1 / 150	16	
ACRYLAMAC® 232-1700	60	53.2	8.45	Х	Z - Z ₃	_	1 / 150	15	
ACRYLAMAC® 232-1711	60	53.7	8.50	n-BuAc	Z ₁ - Z ₃	_	1 / 150	15	

OH VALUE (ON SOLIDS)	EQUIVALENT WEIGHT	ТG (°С)	
_	_		Excellent adhesion and du thermoplastic olefin (TPO
_	_	50	Fast dry times and excelle excellent pigment dispersi
_	_	50	Fast dry times and excelle excellent pigment dispersi
_	_	59	Designed for low odor, sta sag resistance
	_	50	Fast dry times and excelle excellent pigment dispersi
_	_	50	Fast dry times and excelle excellent pigment dispersi
87	645	56	Hydroxyl-functional polyol durable, long-lasting coati
80	701	23	Designed for two-compon resistance and weatherab
154	365	24	Hydroxyl-functional resin f excellent water and humic
87	645	56	Hydroxyl-functional polyol appearance and durability
87	645	56	Excellent gloss and color protective properties
			1

FEATU	IRES AN	ום הנו	VEELTO
	IRES AN	V) RFI	VEELIS

durability on many plastics, especially untreated polypropylene (PP) and O)

llent gloss; good color retention and good compatibility with other resins; sion vehicle

llent gloss; good color retention and good compatibility with other resins; rsion vehicle

tain-blocking primer for 350 g/L VOC; excellent ink stain block and good

llent gloss; good color retention and good compatibility with other resins; sion vehicle

llent gloss; good color retention and good compatibility with other resins; sion vehicle

ol; outstanding weatherability, hardness, gloss and color retention for atings

onent, acrylic urethane coatings; good early water resistance, chemical ability

n for coatings requiring weatherability and chemical resistance with nidity resistance

ol with excellent hardness, gloss and color retention; excellent ity

r retention for outstanding exterior durability; excellent appearance and

Solution Acrylics

PRODUCT	% SOLIDS (WEIGHT)	% SOLIDS (VOLUME)	DENSITY (LBS/GAL)	SOLVENTS	VISCOSITY (G - H)	REDUCED VISCOSITY (G - H)	GARDNER COLOR / APHA (MAXIMUM)	ACID VALUE (SOLID MAX)
THERMOSET — HIGH SC	DLIDS							
ACRYLAMAC® 232-1329	80	74.1	8.80	MAK	Z ₃ - Z ₅	_	1 / 100	15
ACRYLAMAC® 232-2314	80	76.2	8.72	n-BuAc	Z ₃ - Z ₅	C - E @ 60% n-BuAc	1 / 150	8
ACRYLAMAC® 232-2315	80	76.2	8.75	t-BuAc / n-BuAc*	Z ₃ - Z ₅	_	1 / 150	8
ACRYLAMAC® 232-2328	90	88.3	8.61	n-BuAc	Z ₃ - Z ₅	D - H @ 70% n-BuAc	1 / 100	8
ACRYLAMAC® 232-2350	80	76.3	8.72	n-BuAc	Z ₃ - Z ₅	_	1 / 150	6.5
ACRYLAMAC® 232-2780	70	62.5	8.60	MAK	Z - Z ₂	—	1 / 100	8
AROLON® 6473	72	67.0	8.64	n-BuAc	X _{+1/2} - Z _{4+1/4}	_	1 / 150	8
THERMOSET — WATER-	REDUCIBL	.E						
ACRYLAMAC® 232-3312	71	66.4	8.72	EGBE	Z ₆ - Z ₉	F - K @ 40% EGBE	1 / 150	85
AROLON® 559-G4-70	70	66.0	8.75	EGBE	Z _{5+3/4} - Z _{6+1/4}	—	2 / 300	70
THERMOSET CARBOXY		NAL — CC		IAL				
ACRYLAMAC® 232-1128	55	49.3	8.45	EGBE	X - Z ₂	—	1 / 150	65
ACRYLAMAC® 232-1176	41	36.4	8.00	A150 / EGBE	Z ₁ - Z ₃	—	1 / 60	40
ACRYLAMAC® 232-1185	75	68.6	8.48	n-BuOH / n-BuAc	Z ₅ - Z ₇	_	2 / 300	110
ACRYLAMAC® 232-1188	55.5	49.9	8.40	A150 / EGBE	9,000 - 14,500 cps	_	1 / 60	66
ACRYLAMAC® 232-1189	55.5	49.9	8.45	A150 / EGBE	4,300 - 6,300 cps	_	1 / 60	66

OH VALUE (ON SOLIDS)	EQUIVALENT WEIGHT	TG (°C)	
140	400	24	Hydroxyl-functional resin in response with excellent wa
70	800	19	Hydroxyl-functional resin w industrial maintenance topo
70	800	19	t-Butyl acetate version of A
244	230	20	Very high solids polyol proc modifier in applications req
68	825	22	Hydroxyl-functional resin w retention; excellent choice f
135	416	66	Designed for 420 g/L VOC day Skydrol LD4 soak; exce
172	326	32	Designed for 420 g/L VOC day Skydrol LD4 soak; exce
59	951	27	Versatile resin for spray, dip
34	_	_	High gloss; good balance o
_	935	5	Can be formulated into FDA excellent chemical resistance flexibility
_	1,476	25	Designed for to crosslink w abrasion resistance and ha
_	510	14	Designed for industrial elec are required; provides stab resins
_	905	23	Soft, flexible resin that can under 21 CFR 175.300; exc
_	905	3	Soft, flexible resin that can under 21 CFR 175.300; exc

FEATURES AND BENEFITS

n HAPS-free solvent for 2K acrylic urethane coatings. Faster cure ater and humidity resistance and weatherability

with low isocyanate demand designed for use in high performance ocoat applications; can be formulated to 340 g/L VOC

ACRYLAMAC® HS 232-2314

oducing hard, durable and chemically resistant finishes; sole resin or quiring excellent abrasion resistance in 250 g/L VOC formulations

with low isocyanate demand, superior water resistance and gloss of 340 g/L VOC maintenance and marine topcoat applications

C two component acrylic polyurethane aerospace clear coats; passes 30 cellent exterior durability, adhesion, flexibility and buffability

C two component acrylic polyurethane aerospace clear coats; passes 30 cellent exterior durability, adhesion, flexibility and buffability

ip or flow coatings that are baked

of hardness and flexibility; excellent shelf stability

A approvable coatings for direct food contact under 21 CFR 175.300; nee and metal protection properties; excellent balance of hardness and

with epoxy resins for metal applications. Excellent overbake properties, ardness.

ectrocoating or dip tanks where chemical, stain and corrosion resistance ble low VOC systems when crosslinked with melamine, urea or epoxy

n be formulated into FDA approvable coatings for direct food contact xcellent adhesion and chemical resistance; high gloss

n be formulated into FDA approvable coatings for direct food contact xcellent adhesion and chemical resistance; high gloss

Latex

PRODUCT	% SOLIDS (WEIGHT)	% SOLIDS (VOLUME)	DENSITY (LBS/GAL)	РН	TG (°C)
ACRYLIC LATEXES					
AQUAMAC® 450	50.0	47.2	8.80	8.5	10
AQUAMAC® 510	50.0	47.1	8.82	8.5	-5
AQUAMAC® 720	45.0	41.3	8.90	9.0	40
SYNTHEMUL® 40-412	50	—	8.70	9.0	12
SYNTHEMUL® 40-418	51	48.0	8.85	9.0	21
SELF-CROSSLINKING					
AQUAMAC® 575	45.6	43.1	8.70	8.5	-5

PRODUCT	% SOLIDS (WEIGHT)	% SOLIDS (VOLUME)	DENSITY (LBS/GAL)	РН	ТG (°С)			
STYRENE ACRYLICS	STYRENE ACRYLICS							
AQUAMAC® 260	55.0	52.0	8.90	8.5	5			
AQUAMAC® 440	45.0	43.3	8.60	7.5	23			
AQUAMAC® 541	45.0	43.9	8.50	8.5	-10			
AQUAMAC® 570	45.0	43.3	8.60	9.0	32			
AQUAMAC® 700	45.0	42.6	8.70	8.5	58			
AQUAMAC® 705	50.0	47.8	8.70	8.5	19			
AQUAMAC® 737	47.5	46.4	8.50	8.5	3			
AQUAMAC® 740	47.5	45.5	8.65	8.5	40			
AROLON® 820-W-49	49.0	46.0	8.80	8.5	13			
AROLON® 845-W-45	45.0	43.0	8.75	8.5	67			
AROLON® 847-W-42	42.0	39.8	8.52	8.0	23			
AROLON® 850-W-45	45.0	43.0	8.65	7.9	37			
AROLON® 860-W-45	45.0	42.0	8.85	8.0	59			
AROLON® 5900	42.0	39.0	8.83	7.5	24			
VINYL ACRYLICS	VINYLACRYLICS							
AQUAMAC® 580	56.0	52.5	9.10	4.7	9			
SYNTHEMUL® 40-143	65.0	62.0	9.10	5.0	16			
SYNTHEMUL® DX-101-90	55.0	_	8.91	6.0	12			

MFFT (°C)	PARTICLE SIZE (NM)	
18	195	Excellent abrasion resistance and adhesion
1	130	Low Tg latex capable of near zero VOC flat
30	160	Excellent thin film corrosion resistance and high gloss for interior applications; good ad
5	—	General purpose exterior house paints and VOC; excellent exterior durability, mechanic
23	—	Interior and exterior semi gloss; capable of adhesion; very good gloss development
-2	95	APE-free, all acrylic latex capable of achieving substrates; superior block resistance; very good

TICLE ZE M)	MFFT (°C)	
15	16	Developed for highly pigmented systems so masonry coatings; dries quickly
	32	Workhorse product exhibiting outstanding a good adhesion and gloss development; car
10	-3	Can be formulated to 50 g/L VOC for stain tannin stain blocking and very good ink stai
5	36	APE-free resin designed for concrete water be formulated to 100 g/L VOC; passes hydrogeneration of the second seco
15	58	High Tg latex with good corrosion and weat
15	32	Workhorse latex for industrial maintenance resistance; excellent weathering and early
20	-2	APE-free resin designed for industrial main good early water and block resistance
10	62	DTM topcoat and primer coatings with high
-	8	Maintenance primers with good adhesion to
_	63	Wood varnishes with fast air dry; excellent
-	20	Industrial maintenance finishes with excelle
-	47	Plastic coatings with excellent adhesion to
-	90	Wood varnishes and blending resin for PUI
-	_	Acrylic polyol emulsion designed to be read
	9	APE-free latex with excellent scrub resistance formulation latitude for interior architectural co
-	11	Interior flat and satin finishes; provides good le
00	12	Interior flat and satin finishes; superior hiding

FEATURES AND BENEFITS

n; good hardness and exterior durability

t coatings; good exterior durability and adhesion

d compatibility with reactive pigments in primer formulations; can achieve dhesion to galvanized steel

d semi gloss enamels; traffic paints; capable of formulating to 100-150 g/L ical stability, and alcohol compatibility

formulating to 150-200 g/L VOC; excellent block resistance; good wet

ng 50 g/L VOC compliant formulations; excellent adhesion to a variety of cod chemical resistance; performs well in concrete and architectural coatings

FEATURES AND BENEFITS

such as non-specification traffic paints, marking paints and concrete/

all-around performance including block resistance, corrosion resistance, in be formulated to 150 g/L VOC

block primer with the use of ZnO; formulated coatings exhibit excellent ain block properties

prproofers; great adhesion to concrete and excellent blush resistance; can drolytic pressure test TTP-1141A, par.4.3.8

thering resistance; produces hard, tough films with high gloss

e coatings; capable of achieving 100 g/L VOC; outstanding corrosion water resistance; good flexibility and superior gloss

ntenance coatings at 50 0 VOC or lower; excellent corrosion resistance;

gloss and good corrosion and water resistance

to galvanized steel; anti-corrosive pigment stability

chemical resistance

ent corrosion and humidity resistance

plastics

Ds; block resistant; excellent mechanical stability; crosslinkable

cted with polyisocyanates. OHN = 84 on solids.

ce and gloss development; good block resistance, thickening efficiency and coatings

low temperature touch-up; higher solids

power, flow and leveling

Powders

PRODUCT	ACID VALUE	OH VALUE*	DENSITY VISCOSITY	TG	RESIN / CURATIVE	
CARBOXYL-TERMINAT		(ON SOLIDS)	(<i>CP</i>)**	(°C)	RATIO	
POLYMAC® 2510	85 - 100	_	3,100 - 5,600	72	45 / 55 50 / 50	
					60 / 40	
CARBOXYL-TERMINATED – TGIC CURED: EXTERIOR USE						
POLYMAC® 5040	30 - 36	—	6,200 - 7,200	68	93 / 7	
POLYMAC® 5050	32 - 38	—	3,000 - 3,800	59	95 / 5	
POLYMAC® 5650	30 - 35	—	3,700 - 5,600	61	93 / 7	
POLYMAC® 5900	46 - 52	—	3,300 - 4,300	67	90 / 10	
CARBOXYL-TERMINAT	ED – PRIMID® CURE	D: EXTERIOR USE				
POLYMAC® 5050	32 - 38	—	3,000 - 3,800	59	95 / 5	
HYDROXL-TERMINATE	HYDROXL-TERMINATED – ALCURE® POLYISOCYANATE CURED: EXTERIOR USE					
POLYMAC® 3020	5 - 9	116	3,100 - 4,300	55	63 / 37	
POLYMAC® 3110	11	290	2,100 - 3,000	48	50 / 50	
POLYMAC® 3160	15	40	3,700 - 4,900	54	82 / 18	
POLYMAC® 3220	4	40	3,700 - 5,600	58	82 / 18	
HYDROXL-TERMINATE	D – HYDROXYL FUN	CTIONAL FOR URET	HANE SYSTEMS			
FINE-CLAD® M-8076	3 - 5.5	43	5,000 - 6,500	66	78 / 22	
HYDROXL-TERMINATE	D – BIFUNCTIONAL 8	& CARBOXYL FUNC	TIONAL FOR GMA AC	CRYLIC SYSTEMS		
FINE-CLAD® M-8402	13 - 15	22	3,000 - 5,000	63	Various	
HYDROXL-TERMINATE	D – SUPER-DURABL	E RESIN FOR EXTEN		POSURE		
POLYMAC® 6140	30 - 36	_	3,400 - 4,400	63	93 / 7	
BISPHENOL-A FUMUAF	RATE					
FINE-TONE® T-382ES	21	39	3,100	56	_	

BAKE SCHEDULES	
25 min @ 180°C / 356°F 15 min @ 204°C / 400°F	Uncatalyzed poly
20 min @ 180°C / 356°F 10 min @ 204°C / 400°F	High Tg; catalyst-fi
20 min @ 160°C / 320°F 10 min @ 180°C / 356°F	Excellent flexibility; capability when us
20 min @ 180°C / 356°F 10 min @ 204°C / 400°F	Catalyst-free; exce
10 min @ 204°C / 400°F	Good solvent resis
20 min @ 160°C / 320°F 10 min @ 180°C / 356°F	Excellent flexibility Casamid® 2228
10 min @ 204°C / 400°F	Excellent stain, de
15 min @ 204°C / 400°F	Designed to be ex be melt-mixed wit
10 min @ 204°C / 400°F	Excellent flow; ve
10 min @ 204°C / 400°F	Provides low glos
20 min @ 177°C / 351°F 10 min @ 204°C / 400°F	PCM high flexibili
10 min @ 204°C / 400°F 20 min @ 175°C / 347°F	Bifunctional polye
15 min @ 204°C / 400°F	Cures with TGIC for full physical pr
_	Designed to be ex be melt-mixed wit

NOTE: Bake schedules are suggested times and must be determined by the user.

FEATURES AND BENEFITS

yester; good flow; excellent shelf stability; highly reactive

free; good flow; excellent anti-yellowing capability

y; good exterior durability; 0-T bend capability with 93 / 7 TGIC; low gloss sed with Casamid® 2228

ellent flow; good exterior durability; designed for "wet-look" clears

istance and hardness

ity; good exterior durability; low gloss capability when used with

detergent and solvent resistance

extruded with POLYMAC® 3220 for low gloss polyurethane coatings; can it other OH polyesters to enhance hardness and chemical resistance

ery good physical properties

ss when combined with POLYMAC® 3110

lity urethane coatings; 0-T bend

ester; superdurable multi cure matte system; one shot matte finishes

c at 93 / 7; good general purpose resin; requires 5-7% isocyanate curative properties

extruded with POLYMAC® 3220 for low gloss polyurethane coatings; can it other OH polyesters to enhance hardness and chemical resistance

Powders

PRODUCT	EQUIVALENT WEIGHT	% NCO FOR CURE	Т G (°С)	RESIN / CURATIVE RATIO		
POLYMERIC ISOCYANATE CURATIVES						
ALCURE® 4400	302	14	58	82 / 18		
ALCURE® 4402	280	15	58	83 / 17		
ALCURE® 4430	333	12.6	55	81 / 19		
ALCURE® 4431	333	12.6	55	81 / 19		
ALCURE® 4450	275	15.3	64	84 / 16		
ALCURE® 4470	212	19.8	58	87 / 13		

BAKE SCHEDULES	
10 min @ 204°C / 400°F	Polymeric aliphatio
10 min @ 204°C / 400°F	Higher reactivity th
20 min @ 180°C / 356°F	Very good chemic than ALCURE® 44
20 min @ 180°C / 356°F	Reduced yellowing
20 min @ 160°C / 320°F	Polymeric aromati aliphatic curatives
30 min @ 160°C / 320°F	Polymeric aliphation e-caprolactam-free

NOTE: Bake schedules are suggested times and must be determined by the user.

FEATURES AND BENEFITS

tic isocyanate; excellent flow; good overall performance

than ALCURE® 4400; equivalent performance to higher trimer content

ical resistance; polymeric aliphatic isocyanate; lower temperature cure 4400

ing and improved UV resistance versus ALCURE® 4430

atic isocyanate for low temperature cure; considerable savings over es; not recommended for long-term UV exposure; high Tg

tic isocyanate; lower temperature cure than ALCURE® 4400; ee; triazole-blocked

Glossary

Abrasion	Wearing away of a surface in service by action such as rubbing, scraping or erosion.			
	The ability of a coating to resist being worn away and to maintain its original appearance and structure when			
Abrasion Resistance	subjected to rubbing, scraping or erosion.			
Acid Number or Value	The number of milligrams of KOH required to neutralize the free acids in 1 gram of polymer.			
Aftertack	Film defect in which the coated surface, having once reached a tack-free stage, subsequently develops a sticky condition.			
Anti-sintering	The property of reducing sintering.			
Architectural Coatings	Coatings intended for on-site application to interior or exterior surfaces of residential, commercial, institutional or industrial buildings – as opposed to industrial coatings. Protective and decorative finishes applied at ambient emperatures.			
Baking	The process of drying or curing a coating by the application of heat in excess of 65°C / 150°F. When below this temperature, the process is referred to as forced drying.			
Block Resistance	Resistance to the undesirable sticking together of two painted surfaces when pressed together under normal conditions or under specified conditions of temperature, pressure, and relative humidity.			
Blocked Isocyanate	An isocyanate material in which the isocyanate groups (NCO) are blocked from carrying out their normal chemical reactions by already having been reacted, either with a specific blocking agent or with themselves. In the latter case the blocked isocyanate is referred to as a uretdione type, because the NCO groups have linked themselves together to produce uretdione linkages. Common blocking agents are \mathcal{E} -caprolactam and triazole.			
Blocking Agent	A chemical, such as <i>E</i> -caprolactam, that reacts reversibly with isocyanate groups (NCO) such that at temperatures below the deblocking temperature it is covalently bonded to the NCO groups, thereby preventing these groups from reacting with anything else. At temperatures above the deblocking temperature, the blocking agent is released from the NCO groups thus allowing them to react with, for example, the hydroxyl groups of the surrounding polyester resin.			
Blush, Blushing, "Bloom"	Film defect which appears as a milky opalescence as the film dries; can be a temporary or permanent condition. It is generally caused by rapid evaporation, moisture, or incompatibility.			
Brush Drag	Resistance encountered when applying a coating by brush.			
Brushability	The ability or ease with which a coating can be brushed.			
Catalyst	An additive that speeds up a chemical reaction, such as curing, but takes no part in the reaction.			
Chalk Resistance	The ability of a coating to resist the formation of a friable powder on the surface of its film caused by the disintegration of the binding medium due to degradative weather factors.			
Chip Resistance	The ability of a coating or layers of coatings to resist total or partial removal, usually in small pieces, as a result of impact by hard objects or from wear during service.			
Compatibility	Capacity of coatings from either different sources or of different compositions to be combined and applied so as to yield no visible or mechanically measurable differences in the cured film or application properties.			
Conventional Solids	For the purposes of this reference guide, any material that is less than 70% solids. There may be exceptions.			
Copolymer	A polymer consisting of molecules containing large numbers of units of two or more chemically different types in irregular sequence.			
Corrosion Resistance	The ability of a substance to resist deterioration because of reaction with its environment.			
Cracking	Generally, the splitting of a dry paint or varnish film, usually as a result of aging or flexing.			
Crosslinking	Applied to polymer molecules, the setting up of chemical links between the molecular chains to form a three- dimensional or network polymer generally by covalent bonding. Crosslinking generally toughens and stiffens coatings. Thermosetting materials crosslink under the influence of heat and catalysis and, in some cases, electromagnetic radiation.			
Cure	To change the properties of a polymeric system by chemical reaction into a final, more stable, usable condition by the use of heat, radiation or reaction with chemical additives.			
D.O.I. (Distinctness of Image)	The sharpness with which image outlines are reflected by the surface of an object.			
DCO	Dehydrated Castor Oil			
Deblocking Tempera- ture	The temperature at which the thermally reversible reaction between a blocking agent and an isocyanate group (NCO) begins to produce significant quantities of freed NCO groups available for reaction. The higher the temperature a blocked isocyanate is above its deblocking temperature, the more NCO groups are made available, and the faster crosslinking reactions can be. Conversely, when an isocyanate is below its deblocking temperature, no NCO groups are available for reaction.			

Glossary

DFT	Dry film thickness
Dry	A film is considered dry when using m
Dry-Through	Film is considered dry-through when r occurs when the thumb is borne down the plane of the film.
Dry-to-Touch	A film is considered dry-to-touch when touching the film, and film does not ru
DTM (Direct-to-Metal)	Refers to coatings applied directly to a
Edge Coverage	A powder coating's ability to flow over
Enamel	Topcoat that is characterized by its ab may also include lower degrees of glo
Equivalent Weight	The equivalent weight of a material is number of a given reactive group pres coating powders, the resin equivalent polyesters) or 56,100 divided by the re solids basis.
Exempt Solvent	Any solvent that has not been declare
Extruder	A device used to melt-mix plastics and to achieve a homogeneous mixture.
FDA	Food and Drug Administration
Flash Point	Lowest temperature of a liquid at which the surface of the liquid or within the v
Glass Transition Temperature (Tg)	The temperature at which materials in or from a soft rubbery state to a harde
НАР	Hazardous Air Pollutant
High Drink	A resin is said to be high drink when, a solids at a given viscosity.
High Solids	For the purposes of this reference gui
HDODA	Hexanediol diacrylate
HQMME	Hydroquinone monomethyl ether
Hybrid Powder Coating	A powder coating whose binder comp "60/40" polyester/epoxy hybrid for exa 40 wt/% epoxy. The functional groups given wt/% ratios of each resin.
Impact Fusion	The tendency for particles of powder of of mechanical impact during transport
Inhibitor	A negative catalyst which prevents or
Isocyanate	A material containing NCO groups that Commonly those used in coating pow
Lacquer	Coating composition which is based o solvent that dries primarily by solvent
Long Oil Alkyd	Alkyd resin containing more than 60%
Medium Oil Alkyd	Alkyd of medium oil content, usually c
Melt Mixing	A predominant process for the manufa pigments, fillers, additives, resins and
MFFT (Minimum Film Forming Temperature)	The minimum temperature at which an of cracking or powdery appearance of
Modified Alkyd	Modified alkyds are those in which the vegetable oil fatty acids are typical.
Oligomer	A polymer composed of molecules co

noderate pressure, it feels firm to the touch.

no distortion of the film (i.e., loosening, detachment, wrinkling, etc.) /nward while simultaneously turning the thumb through an angle of 90° in

en it no longer adheres to the finger. The finger leaves no marks after ub up appreciably when finger is lightly rubbed across the surface.

an uncoated, non-primed metal substrate.

r, build and adhere to sharp corners, angles and edges.

bility to form a smooth surface; originally associated with a high gloss but oss.

s its molecular weight divided by its functionality, the latter being the esent on an average molecule of the material. For polyester resins for it weight is given by 56,100 divided by the resin acid value (for carboxyl resin hydroxyl value (for hydroxyl polyesters). Expressed based on a

ed photochemical reactive by any of several regulatory agencies.

nd/or powder coatings. An extruder utilizes heat and mechanical kneading

ich it gives off sufficient vapor to form an ignitable mixture with the air near vessel used.

n general change from either a hard glassy state to a softer, rubbery state, ler glassy state.

, as solvent is added, there is a slow viscosity reduction, enabling lower

uide, any material that is 70% solids or higher. There may be exceptions.

ponent is a blend of two different resins, such as polyester and epoxy. A ample, would have a resin component comprising 60 wt/% polyester and s on each resin are balanced so as to fully react with each other at the

coatings to agglomerate, fuse together, or build up on surfaces, because rtation within the powder application equipment.

retards an undesirable chemical reaction.

at are available for reaction with a variety of other functional groups. wders are polymeric in nature so as to increase their functionality. on synthetic thermoplastic film-forming material dissolved in organic

t evaporation.

% of oil in solids.

containing from 40-60% of oil in solids.

facture of powder coatings involving the continuous compounding of the d curing agents at elevated temperatures.

an applied coating forms a continuous film, as evidenced by the visual lack of film and film integrity, by testing the film on a temperature gradient plate. ne polybasic acid is substituted in part by a monobasic acid, of which the

ontaining only two, three or a few repeating structural units.

Glossary

Particle Size	The average diameter of a distribution of particles, usually expressed in microns or nanometers.	
PVC (Pigment Volume Concentration)	Ratio of the volume of pigment to the volume of total nonvolatile material (i.e., pigment and binder) present in a coating.	
Pinholes	Film defect characterized by small pore-like flaws in a coating that extend entirely through the applied film and have the general appearance of pin pricks when viewed by reflective light.	
Post Cure Embrittle- ment	A process whereby a cured coating exhibits increasing embrittlement and decreasing impact resistance with age.	
Pot Life	The length of time a paint material is useful after its original package is opened or after catalyst or other ingredients are added.	
Powder Coating	Finely divided particles of organic polymer that generally contain pigments, fillers and additives and which remain finely divided during storage under suitable conditions.	
Precatalyzed	Usually refers to a resin that has a catalyst already added by the resin manufacturer. This ensures complete mixing of the catalyst with the resin and results in a resin that reacts faster than the uncatalyzed material.	
Primer	The first complete coat of paint of a painting system applied to a surface.	
Profile	Surface contour of a blast-cleaned or substrate surface, viewed from the edge.	
Reactive Diluent	A viscosity reducer for coatings that has low volatility and will become a permanent part of the coating through chemical reaction.	
Sagging	Downward moving of a paint film between the times of application and setting, resulting in an uneven coating having a thick lower edge.	
Salt Spray Test	Test applied to metal finishes to determine their anticorrosive properties, involving spraying of common salt (sodium chloride) solution on the surface of a coated steel panel.	
Shelf Life	The period of time for which a material can normally be stored and still be in a usable condition.	
Short Oil Alkyd	Alkyd resin containing less than 40% oil in solids.	
Sintering	The tendency of some powder coatings to agglomerate over time, often due to being stored too long at too high a temperature.	
Skydrol® Resistance	Product is resistant to hydraulic fluid Skydrol.	
Surface Dry	The premature drying of the surface of a liquid coating film so that the under portion is retarded in drying.	
Syneresis	The separation of liquid from a gel.	
Tack-Free	Freedom from tack of a coating after suitable drying time.	
T-Bend Flexibility Test	Simple method for determining the flexibility of coatings by bending a coated metal test strip over itself. A panel is bent and pressed flat by means of a jig to achieve a 180° bend.	
Telegraphing	Brush marks or other irregularities in the previous coat or substrate that show through the cured topcoat.	
Tg	The temperature at which materials in general change from either a hard glassy state to a softer, rubbery state, or from a soft rubbery state to a harder glassy state.	
TGIC (Triglycidyl Isocyanurate)	A curing agent for powder coating resins containing carboxyl groups.	
ТМА	Trimellitic anhydride	
Two-Component Paint	A coating that is manufactured in two components that must be maintained separately until shortly before use.	
Uretdione	A material containing uretdione linkages. These linkages are produced by two NCO groups reacting with each other. The original NCO groups are then no longer available for reaction and are termed "blocked." The reaction is reversible, such that the application of sufficient heat will cause the regeneration of the original NCO groups, which can then react. The advantage of this type of blocking is that there is no release of any blocking agent.	
VOC (Volatile Organic Compound)	Any organic compound that participates in atmospheric photochemical reactions; that is, any organic compound other than those that the EPA designates as having negligible photochemical reactivity.	
Weathering	Behavior of paint films when exposed to natural weather or accelerated weathering equipment, characterized by changes in color, texture, strength, chemical composition or other properties.	
Yellowing	Development of a yellow color on aging.	
Yellowing Resistance	The resistance a coating has to turning yellow due to, for example, extended cure times at high temperature, or the use of direct gas-fired curing ovens.	

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