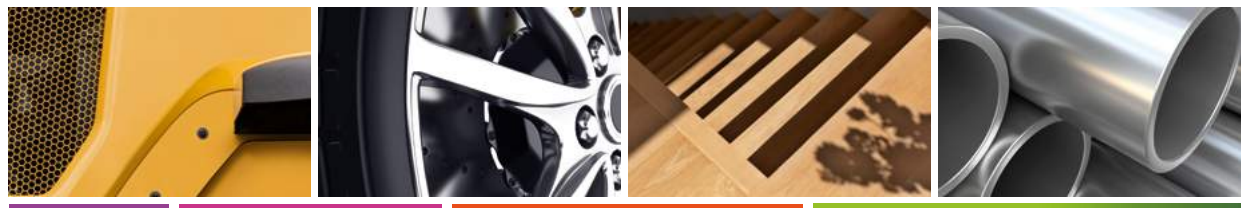


LIQUID RESINS & ADDITIVES

Europe, Middle East & Africa



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allnex
The Coating Resins Company



Facts & Figures

- Global company with over €2.1 billion in sales
- Broad technology portfolio: liquid coating resins, energy curable resins, powder coating resins, crosslinkers and additives, composites and construction materials
- Approximately 4000 employees
- Customers in more than 100 countries
- 32 manufacturing facilities
- 23 research and technology centers
- 5 joint ventures
- Extensive range of solutions for key coating segments: automotive, industrial, packaging coating and inks, protective, industrial plastics and specialty architectural



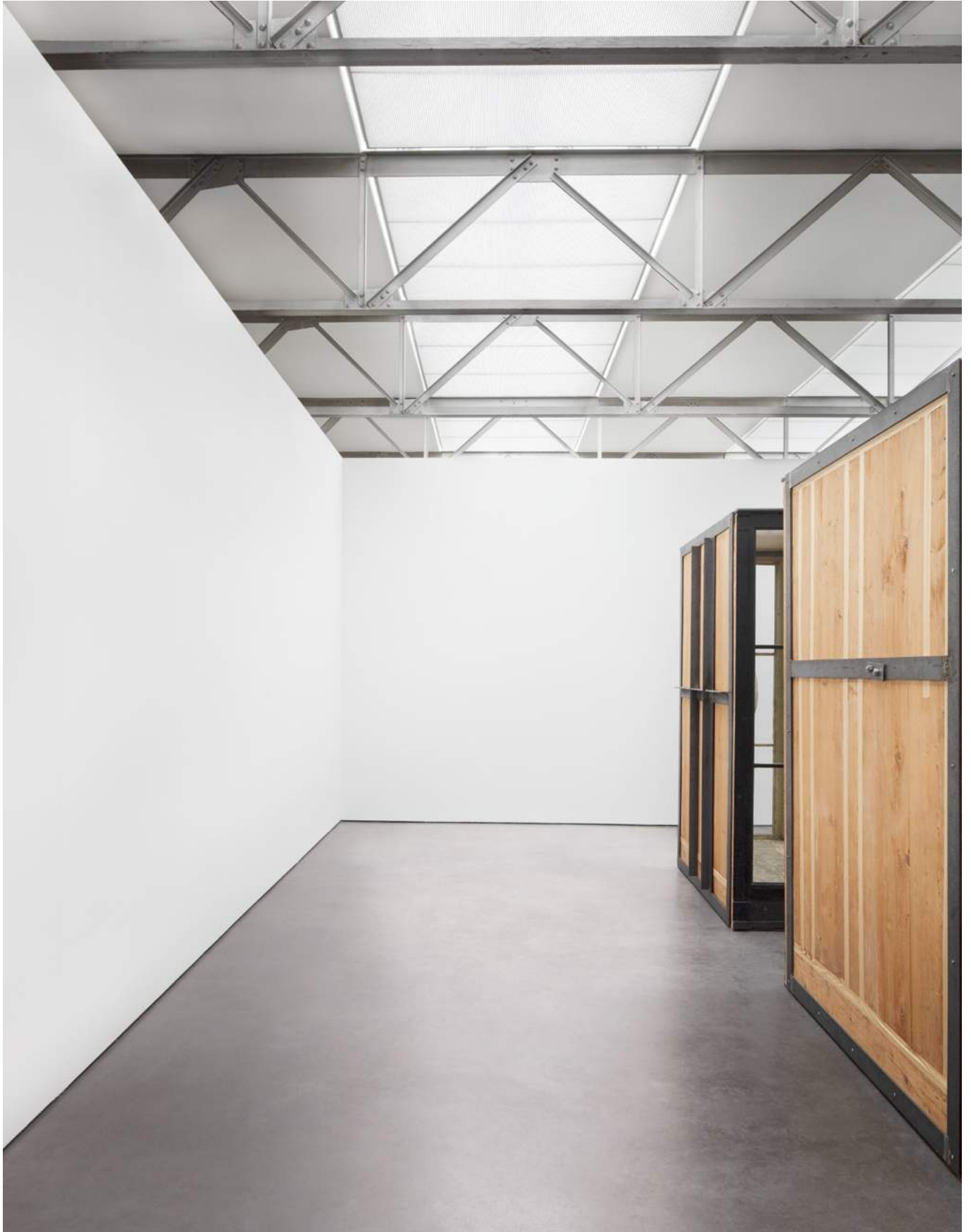
With manufacturing, R&D and technical facilities located throughout Europe, North America, Asia Pacific and Latin America, allnex offers global and reliable supply of resins and additives combined with local, responsive customer support.

We are allnex

allnex is a leading producer of liquid coating resins and additives (LRA). The LRA business provides a comprehensive range of products with its core technologies including: Alkyds, Acrylics, Epoxies, Polyesters, Polyurethane Dispersions and Additives for use in water borne, solvent borne and solvent-free paint and coatings. Our products lend themselves to be used in multiple end-user segments including Automotive OEM, Vehicle Refinish, Marine & Protective, High End Metal Finishes, Decorative and Construction. With research and development and technical facilities located on five continents, we offer innovative solutions to fulfill technical and regulatory requirements around the world.

Please contact our technical service staff if you need additional information or have specific questions about our resins. The product finder on our website features a more complete list of all of our products and technologies as well as access to the TDS. We have the possibility to offer tailor-made solutions in cases where we cannot find the product which meets with your requirements.





Solvent borne

Resin type	Trade names	Resin sub type	Page
Acrylic resin	MACRYNAL® SETALUX® VIACRYL®	Acrylic polyol, low solids	10
		Acrylic polyol, medium solids	12
		Acrylic polyol, high solids	14
		Acrylic, two-component NCO free	16
		Non-aqueous acrylic dispersion	16
		Thermoplastic acrylic	16
		Thermosetting acrylic	16
Alkyd resin	SETAL® SETYRENE™ VIALKYD®	Long oil alkyd	18
		Long oil alkyd, styrene modified	18
		Long oil alkyd, urethane modified	18
		Medium oil alkyd	18
		Medium oil alkyd, silicone modified	18
		Short oil alkyd	20
		Short oil alkyd, acrylic modified	20
		Short oil alkyd, styrene modified	20
Bisoxazolidine resin	SETA	Urethane bisoxazolidine	28
Epoxy resin	BECKOPOX™	Epoxy resin	24
	DUROXYN®	Epoxy ester	24
Epoxy hardener	BECKOPOX™	Amine hardener	24
Hydrophobic polyol resin	SETATHANE®	Polyester polyol	28
		Polyether-ester polyol	28
Other resin	BECKOCOAT™ RESAMIN® VIAMIN®	Moisture curing resin	24
		Carbamide resin	24
		Plasticized urea resin	24
Polyester resin	DUROFTAL® SETAL® VIALKYD®	Polyester polyol	22
		Saturated polyester	22
		Saturated polyester, silicone modified	22
Rheology control resin	SETAL®	Long oil alkyd, thixotropic modified	30
		Polyester polyol, SCA modified	30
		Saturated polyester, SCA modified	30
	SETALUX®	Acrylic polyol, SCA modified	30
		Thermosetting acrylic, SCA modified	30
Unsaturated polyester resin	ROSKYDAL®	Amine-accelerated unsaturated polyester resin	26
		Standard unsaturated polyester resin	26

Water borne

Resin type	Trade names	Resin sub type	Page
Acrylic resin	MACRYNAL® SETAQUA® VIACRYL®	Acrylic polyol dispersion	34
		Acrylic polyol emulsion	34
		Thermosetting water borne acrylic	34
		Acrylic resin for two-component NCO free	38
		Self-crosslinking acrylic dispersion	36
		Self-crosslinking acrylic dispersion, surfactant free	36
		Special acrylic dispersion	36
		Thermoplastic acrylic dispersion	36
	RESYDROL®	Multi domain dispersion	36
	SETALUX®	Thermosetting acrylic, water thinnable	38
UCECRYL®	Acrylic emulsion	38	
Alkyd resin	RESYDROL® SETAQUA® SETAL®	Alkyd for air drying	40
		Alkyd for baking	40
		Water reducible alkyd for air drying	42
		Water reducible alkyd for baking	42
CED resin	RESYDROL®	Epoxy resin for Industrial CED	46
	VIACRYL®	Acrylic resin for Industrial CED	46
Epoxy resin	DUROXYN®	Epoxy ester	44
	BECKOPOX™	Epoxy resin	44
		One-component epoxy resin	44
Epoxy hardener	BEKOCURE® BECKOPOX™	Amine hardener for epoxy resin and dispersion	44
Hydrophobic polyol resin	SETATHANE®	Polyol emulsion	28
Polyester resin	DUROFTAL® RESYDROL® SETAQUA®	Water borne polyester resin	40
		Water reducible polyester resin	42
Polyurethane resin	DAOTAN®	Polyurethane dispersion	48
Rheology control resin	SETAQUA®	Pseudoplastic acrylic dispersion	30

Additive

Trade names	Additive sub type	Page
ADDITOL®	Grinding media	50
CYCAT®	Anti-settling and anti-floating additives	52
MODAFLOW®	Flow and leveling additive	52
MULTIFLOW®	Substrate wetting additive	52
TUNGOPHEN®	Pigment wetting and dispersing additive	52
	Air release additive	54
	Defoamer	54
	Rheology additive	54
	Anti-adhesion additive and adhesion promoter	56
	Drier	56
	Catalyst	56
	Special alkyd additive	56

Abbreviations

Ac	Acetone	MPA	Methoxy propyl acetate
AEW	Amine Equivalent Weight	MPP	Methoxypropoxy propanol
AHC	Aliphatic hydrocarbons	NaOH	Sodium hydroxide
AV	Acid Value	-	not applicable
AMP 90	2-Amino-2-methyl-1-propanol, 90% in water	n-But	n-Butanol
APEO	Alkyl phenol ethoxylate	NEP	N-Ethyl pyrrolidon
BADGE	Bisphenol A diglycidylether	NH3	Ammonia
BDG	Butyl diglycol	NMP	N-Methyl pyrrolidon
BDGA	Butyl diglycol acetate	NPE	Nonyl phenol ethoxylate
BG	Butyl glycol	PCBTF	Parachlorobenzotrifluoride
BP	Butoxy propanol	PE	Propoxy ethanol
BuAc	Butyl acetate	PGMEA	Propylene glycol methyl ether acetate
CED	Cathodic electrodeposition	PnP	Dowanol PnP ¹⁾
DCO	Dehydrated castor oil	PVC	Polyvinyl chloride
D40	Solvent D40	SB	Solvent borne
D60	Solvent D60	SCA	Sag Control Agent
DEGBE	Diethylene glycol monobutyl ether	SN	Solvent Naphtha
DMEA	Dimethyl ethanol amine	SN 150	Solvent naphtha 150
DPGDME	Dipropylene glycol dimethyl ether	SN 180-210	Solvent Naphta 180-210
DPM	Dowanol DPM ¹⁾	Sty	Styrene
EEW	Epoxy Equivalent Weight	TDI	Toluene diisocyanate
EP	Ethoxy propanol	TEA	Triethyl amine
EPA	Ethoxypropyl acetate	Tex	Texanol
Eth	Ethanol	Tol	Toluene
HEW	Hydroxy Equivalent Weight	TPG	Tripropylene glycol
i-But	Isobutanol	VT	Vinyl Toluene
i-Pro	Isopropanol	WA	Demineralized water
MFFT	Minimal Film Forming Temperature	WB	Water borne
MEK	Methyl ethyl ketone	WS	White Spirit
Met	Methanol	WS 165	White Spirit 165
MP	Methoxy propanol	Xyl	Xylene

1) Dowanol is a registered trade mark of The Dow Chemical Company

GENERAL NOTES

Listed values are indicative averages. See datasheets for actual specifications and measuring methods.

An * behind the product name indicates other delivery form(s) available.

Equivalent Weights are given in gram/equivalent, calculated on delivery form.

The thix index for rheology control resins is defined as the ratio between low shear viscosity and high shear viscosity.

All following trade names are registered and owned by allnex.

Trade name	Resin sub type
ADDITOL®	Additives for dispersing, leveling and defoaming.
BECKOCOAT™	Moisture curing resins.
BECKOCURE®	Amine hardeners for epoxy resins and dispersions.
BECKOPOX™	Water borne and solvent borne epoxy resins and hardeners.
CYCAT®	Catalysts for heat cured coatings.
DAOTAN®	Water borne polyurethane dispersions.
DUROFTAL®	Solvent borne hydroxylated polyesters.
DUROXYN®	Water borne and solvent borne epoxy ester resins.
MACRYNAL®	Water borne and solvent borne acrylic polyols.
MODAFLOW®	Additives for flow and leveling.
MULTIFLOW®	Additive for flow and leveling.
RESAMIN®	Solvent borne plasticizing resin.
RESYDROL®	Water borne modified alkyd resins.
ROSKYDAL®	Unsaturated polyesters.
SETA	Bisoxazolidine resin.
SETAL®	Solvent borne alkyd and polyester resins.
SETALUX®	Solvent borne acrylic resins.
SETAQUA®	Water borne acrylic and alkyd resins.
SETATHANE®	Hydrophobic polyols.
SETYRENE™	Acrylic modified short oil alkyd.
TUNGOPHEN®	Special alkyd additive.
UCECRYL®	Water borne acrylic emulsions.
VIACRYL®	Water borne and solventborne acrylic resins.
VIALKYD®	Solvent borne alkyd resins.
VIAMIN®	Plasticized urea resin.

Solvent borne acrylic resins

Product name	OH (%) (on solids) ↓	HEW (as supplied)	NV (%)	Solvents	Viscosity (23°C, Pa.s)	AV as supplied (mg KOH/g)
Acrylic Polyol - Low Solids						
SETALUX® 1197 SS-40 *	1.1	3860	40	BuAc	4.0	7.6
SETALUX 1193 SS-51	1.3	2470	53	BuAc	5.0	3.6
SETALUX D A 960 SN	1.3	2180	60	SN	4.6	3.6
MACRYNAL® SM 540/60X	1.4	2020	60	Xyl	2.0	max. 3.0
SETALUX 1179 BA-57	1.7	1750	57	BuAc	7.0	5.2
MACRYNAL SM 507/53XBAC	1.8	1558	53	Xyl / BuAc	6.5	6.1
SETALUX 1182 SS-55 *	1.8	1720	55	Xyl / BuAc	1.3	2.5
SETALUX 1194 SS-52	1.8	1820	52	BuAc	25	10
SETALUX 1200 XX-55	1.8	1720	55	Xyl	1.6	3.3
MACRYNAL SM 548/50X	2.0	1725	50	Xyl	0.9	max. 2.5
SETALUX 1184 SS-51	2.0	1630	52	BuAc	9.2	3.6
SETALUX D A 450 BA *	2.0	1700	50	BuAc	4.0	4.0
MACRYNAL VSM 2760/50BAC	2.1	1620	50	BuAc	3.0	5.0
MACRYNAL VSM 2706/60X	2.6	1100	60	Xyl	2.5	5.7
SETALUX 1196 XX-60 *	2.6	1090	60	Xyl	2.0	3.6
MACRYNAL SM 500/60X	2.7	1050	60	Xyl	2.9	4.5
SETALUX D A 160 X *	2.7	1050	60	Xyl	1.8	4.0
SETALUX D A 163 X	2.7	1000	63	Xyl	4.4	4.0
SETALUX 1214 XS-54	2.8	1120	54	Xyl / BuAc	2.3	3.2
MACRYNAL VSM 1509/60LG	3.0	935	60	BuAc / SN	6.0	7.2
SETALUX 1186 SS-60	3.0	930	61	Xyl / SN / BuAc	2.2	4.8
SETALUX D A 760 BA/X	3.0	940	60	Xyl / BuAc	2.0	6.5
SETALUX 1199 XS-60	3.5	810	60	Xyl / SN / BuAc	6.0	6.9
SETALUX 1160 XS-51	3.6	930	51	Xyl / BuAc	3.4	4.1
SETALUX 1187 XX-60	3.6	790	60	Xyl	0.38	3.6
SETALUX 1192 SS-60	3.8	730	61	BuAc	3.6	4.0
SETALUX 1152 SS-60 *	4.2	660	61	Xyl / MPA	4.0	4.8
SETALUX 1151 XX-51 *	4.4	760	51	Xyl	1.0	4.1
MACRYNAL SM 510n/60LG	4.5	625	60	Xyl / BuAc / SN	3.0	4.5

Color (max. value)	Density (kg/dm ³)	Technical features
35 APHA	0.98	Extremely fast drying, very good through hardening, good stackability and long potlife.
100 APHA	1.01	Extremely fast drying, very good through hardening, good stackability, long potlife, good light fastness.
50 APHA	1.00	Good lightfastness and chalking resistance, good single-coat adhesion on steel and most non-ferrous metals.
200 Hazen	0.99	High gloss, excellent mechanical properties and superior adhesion to metals and non-iron metals (aluminium, zinc). Low NCO demand. Recommended for industrial metal primers and topcoats.
100 APHA	1.04	Very fast drying, very good through hardening, good stackability, long potlife, good chemical resistance, excellent mar and stain resistance, good light fastness.
70 Hazen	1.00	Fast drying two-component lacquers for industrial applications as well as wood and furniture coatings. Superior adhesion to aluminum and plastic parts (ABS and PC).
50 APHA	0.98	Excellent adhesion to metals such as aluminium, steel, zinc plated steel, stainless steel, excellent mechanical properties, good outdoor durability and quick drying.
50 APHA	1.04	Extremely fast drying, very good through hardening, good stackability.
50 APHA	0.98	Fast drying and good adhesion to various substrates such as aluminium, steel, zinc plated steel, stainless steel. Good mechanical properties and good outdoor durability.
70 Hazen	0.98	Fast drying two-component systems with high hardness for industrial topcoats. Low NCO demand.
50 APHA	1.01	Excellent fast drying, very good through hardening, good stackability, long potlife, good chemical resistance, excellent mar and stain resistance, good light fastness, good compatibility with poly-isocyanates.
50 APHA	1.01	Extremely fast-drying.
100 Hazen	1.01	High chemical resistance, light fastness and quick drying. Suitable for the formulation of high quality two-component coatings for furniture and parquet.
200 Hazen	0.99	Fast drying two-component coatings for the industrial lacquer sector. Low NCO demand, better and good outdoor durability than MACRYNAL® SM 500/60X.
50 APHA	1.00	Fast drying, good through hardening, good adhesion, good chemical resistance, good light fastness, good compatibility with poly isocyanates.
70 Hazen	0.97	High gloss, good mechanical properties and good adhesion to metals and plastic substrates. In combination with polyisocyanates for air drying as well as forced drying primers and topcoats in industrial applications.
50 APHA	0.98	Good weather stability and good resistance to water, washing solutions and chemicals
50 APHA	0.98	Good weather stability and good resistance to water, washing solutions and chemicals. Higher solids content than SETALUX® D A 160 X.
50 APHA	1.00	Fast drying and good adhesion on various substrates such as aluminium, steel, zinc plated steel, stainless steel; good mechanical properties and good outdoor durability.
100 Hazen	1.04	Very fast drying, good balance of elasticity and hardness. High outdoor durability. For auto refinish systems.
40 APHA	1.00	Excellent hardness, very good exterior durability, good gloss, good build, excellent solvent and mechanical resistance and excellent mechanical properties.
50 APHA	1.02	Good light stability, chalking resistance and gloss retention.
35 APHA	1.01	High mechanical strenght and good corrosion, chemical and weather resistance.
100 APHA	1.00	Good stone-chip resistance, good sandability and good adhesion.
50 APHA	1.01	Excellent mechanical properties and chemical resistance, high-medium solids. In combination with IPDI based hardeners: high solid, high build, good gloss, excellent outdoor durability and light fastness, good mechanical properties.
35 APHA	1.03	Very fast drying at room and elevated temperature, excellent appearance, easy application, good outdoor durability, good adhesion results to metallic basecoats, good yellowing resistance in accelarated weathering tests.
75 APHA	1.03	Easy application, even under conditions of high humidity and low temperatures. High build and practically no yellowing under UV light, excellent exterior durability, good mechanical properties and chemical resistance.
60 APHA	0.99	Excellent hardness, very good exterior durability, excellent mechanical properties, easy application facilities especially in airless-spray equipment and also under severe humidity conditions and low temperatures.
25 Hazen	1.01	At ambient temperature drying or forced drying two-component systems with high gloss, excellent mechanical properties, superior outdoor durability and chemical resistance, in particular for automotive refinish topcoats and clearcoats.

Solvent borne acrylic resins

Product name	OH (%) (on solids) ↓	HEW (as supplied)	NV (%)	Solvents	Viscosity (23°C, Pa.s)	AV as supplied (mg KOH/g)
Acrylic Polyol - Low Solids						
MACRYNAL® SM 510n/60LGV5	4.5	625	60	BuAc / PCBTF	3.0	5.1
SETALUX® 1190 SS-61	4.5	620	61	Xyl / MPA	9.2	4.5
MACRYNAL VSM 2155/60EPAC	5.8	492	60	EPA	4.4	max. 3.6
Acrylic Polyol - Medium Solids						
SETALUX D A 170 BA	2.6	930	70	BuAc	3.8	13
MACRYNAL SM 2711/70BAC	2.7	890	70	BuAc	2.0	3.8
MACRYNAL SM 2727/70X	2.7	890	70	Xyl	2.2	4.6
SETALUX 1226 SS-60	2.7	1050	60	BuAc / MEK	1.2	11
SETALUX 1218 VX-70	2.8	870	70	SN / Xyl	4.1	6.5
SETALUX 1202 SS-70	3.0	810	70	BuAc	1.8	6.0
SETALUX 1217 BA-70	3.0	810	70	BuAc	9.5	4.2
SETALUX 1211 BA-65	3.0	870	65	BuAc	2.0	6.5
SETALUX D A 265 BA	3.1	840	65	BuAc	2.3	max. 15
SETALUX 1905 BA-74	3.3	700	74	BuAc	3.9	6.6
MACRYNAL SM 2892/65XBAC	3.3	785	65	Xyl / BuAc	3.0	-
MACRYNAL VSM 2705/70LG	3.5	697	70	BuAc / SN	4.9	7.7
SETALUX D A HS 1170 BA	3.6	670	70	BuAc	1.2	7.0
SETALUX FC 1227 BA-67	3.6	700	67	BuAc	4.4	4.0
SETALUX 1198 SS-70	4.2	580	70	BuAc	10	6.7
SETALUX 1753 SS-70 *	4.2	580	70	BuAc	5.0	10
SETALUX D A 870 BA	4.2	575	70	BuAc	3.5	7.5
MACRYNAL SM 565/70BAC	4.4	550	70	BuAc	3.1	7.0
MACRYNAL VSM 2800/70BAC	4.4	495	70	BuAc	3.5	12
SETALUX D A 365 BA/X	4.5	580	65	BuAc / Xyl	3.0	7.5
MACRYNAL SM 2516/70BAC	4.5	535	70	BuAc	9.0	5.2
MACRYNAL SM 515/70BAC	4.5	535	70	BuAc	4.8	5.2
MACRYNAL SM 516/70BAC	4.5	535	70	BuAc	9.0	5.2

Color (max. value)	Density (kg/dm ³)	Technical features
25 Hazen	1.10	Air drying and force air drying two-component systems intended primarily for use in automotive refinish clear coats having 2.1 lbs/gal VOC possible when formulated with exempt solvents.
35 APHA	1.03	Good build and gloss, high end-hardness, good exterior durability.
80 Hazen	1.06	Excellent chemical resistance and pigment wetting. Especially suited for airplanes or military vehicles.
50 APHA	1.02	Broad application properties (brushing, rolling and airless spraying), good weather stability, resistance to water, washing solutions and chemicals.
100 Hazen	1.05	Air drying as well as forced drying high-solids two-component primers and topcoats for industrial applications. Fast drying with high hardness.
100 Hazen	1.04	Air drying as well as forced drying industrial applications. Fast drying systems with high hardness, robustness and good UV resistance.
50 APHA	1.00	extremely fast curing, hydroxy-functional acrylic polyol for two component vehicle refinish primers and topcoats/ Clearcoats
50 APHA	1.01	Fast drying and good chemical resistance, good adhesion.
20 APHA	1.00	Fast drying, good hardness, good outdoor durability, good gloss and build, good solvent and chemical resistance and good mechanical properties.
20 APHA	1.00	Very fast drying, good hardness, good outdoor durability, good gloss and build, good solvent and chemical resistance and good mechanical properties.
35 APHA	1.03	Good weather resistance and good appearance. Suitable for the manufacture of airdrying and forced drying two-component paints with high mechanical strength,
150 APHA	1.06	High hardness with good flexibility, high gloss, high body, good lightfastness and weather stability.
50 APHA	1.05	High build and gloss, excellent mechanical properties and good outdoor durability
100 Hazen	1.01	Combinatorial resin to improve flexibility (also at lower temperatures) for high quality, flexible two-component clearcoats and pigmented topcoats. The cured films provide a good balance of flexibility and hardness and weathering stability.
80 Hazen	1.03	High gloss, good mechanical properties, good chemical resistance for high quality, easy to apply high solids, two-component industrial coatings
75 APHA	1.05	High hardness and toughness with good flexibility, high gloss and body, outstanding lightfastness and weather stability, good resistance to solvents and petrol.
50 APHA	1.02	Coatings with super-fast drying at ambient temperatures, high build and gloss, good hardness build-up, good mechanical properties and good outdoor durability.
35 APHA	1.05	Good exterior durability, good build and gloss, high end hardness and good adhesion results on metallic basecoats.
35 APHA	1.04	Fast drying, high build and gloss, excellent mechanical properties and chemical resistance, practically no yellowing under UV-light, high solids content at application viscosity.
50 APHA	1.03	"High hardness with very high flexibility, high gloss and body, outstanding weather- and lightfastness, good resistance against solvents and petrol."
100 Hazen	1.05	Air drying and forced drying high-solids two-component coatings with high gloss, outstanding mechanical properties, excellent chemical resistance and outdoor stability.
100 Hazen	1.04	High reactivity, high gloss, high DOI, good leveling, very high solids, two-component clearcoats and pigmented topcoats for automotive refinish and industrial lacquers.
100 APHA	1.03	High hardness and toughness with good flexibility, high gloss and body, excellent weather stability and lightfastness, good resistance to solvents and petrol.
70 Hazen	1.05	Air-drying and forced drying two-component medium high solids systems with high gloss, excellent mechanical properties, excellent chemical resistance and good outdoor stability for automotive refinishes.
80 Hazen	1.05	Air drying and forced drying two-component systems with high gloss, excellent mechanical properties and excellent chemical resistance. Best in class for automotive refinish.
70 Hazen	1.05	Air drying and forced drying two-component medium high solids systems with high gloss, excellent mechanical properties, excellent chemical resistance and good outdoor durability for automotive refinish topcoats and clearcoats.

Solvent borne acrylic resins

Product name	OH (%) (on solids) ↓	HEW (as supplied)	NV (%)	Solvents	Viscosity (23°C, Pa.s)	AV as supplied (mg KOH/g)
Acrylic Polyol - Medium Solids						
MACRYNAL® VSM 2868/70BAC	4.5	535	70	BuAc	3.8	5.2
SETALUX® D A 665 BA/X *	4.6	570	65	BuAc / Xyl	2.4	6.5
MACRYNAL SM 2815/70BAC	5.5	445	70	BuAc	1.2	14
MACRYNAL SM 2855/70BAC	6.0	400	70	BuAc	4.2	5.2
Acrylic Polyol - High Solids						
MACRYNAL SM 2704/75BACX	1.9	1150	75	BuAc / Xyl	6.0	3.8
MACRYNAL SM 2703/80BACX	2.2	960	80	BuAc / Xyl	8.0	5.6
SETALUX D A HS 1375 BA	2.8	810	75	BuAc	5.0	8.0
SETALUX 1910 BA-75	3.6	630	75	BuAc	7.4	6.8
SETALUX FC 1923 BA-75	3.6	630	75	BuAc	7.6	4.5
SETALUX D A 575 X	3.7	610	75	Xyl	3.5	5.0
SETALUX 1919 BA-74	3.8	600	74	BuAc	6.6	6.7
SETALUX 1921 BA-78	3.9	560	78	BuAc	6.1	4.0
SETALUX 1906 BA-75	4.0	570	75	BuAc	9.6	9.7
SETALUX FC 1922 BA-75	4.1	550	75	BuAc	6.2	max. 1.5
SETALUX FC 1924 BA-75	4.1	550	75	BuAc	7.6	4.5
SETALUX FC 1925 BA-75	4.1	550	75	BuAc	7.0	max. 3.0
SETALUX 1915 BA-75	4.1	550	75	BuAc	5.8	4.5
MACRYNAL SM 2810/75BAC	4.2	555	75	BuAc	5.2	11
MACRYNAL VSM 2805/80BAC	4.3	560	80	BuAc	6.2	7.2
SETALUX 1903 BA-75	4.5	500	75	BuAc	6.7	7.5
SETALUX 1907 BA-75	4.5	500	75	BuAc	6.0	6.7
SETALUX 1908 BA-75	4.5	500	75	BuAc	4.6	6.8
SETALUX 1916 BA-76	4.5	500	76	BuAc	5.8	6.1
SETALUX 1909 BA-75	5.0	450	75	BuAc	3.0	6.2
SETALUX 1901 SS-75	5.4	420	75	BuAc	3.6	max. 3.8

Color (max. value)	Density (kg/dm ³)	Technical features
50 Hazen	1.07	High quality, high solids, two-component clearcoats and pigmented topcoats for the automotive refinish and industrial lacquer sectors. Varnishes based on MACRYNAL VSM 2868 provide a higher solids content compared to MACRYNAL® SM 515 or MACRYNAL SM 516.
100 APHA	1.03	High hardness with good flexibility, high gloss and body, outstanding weather stability and lightfastness, good resistance to solvents and petrol.
100 Hazen	1.05	Especially suited for topcoats and direct-to-metal monocoats in demanding outdoor applications.
100 Hazen	1.04	Fast drying, excellent chemical and solvent resistance. Especially suited for coatings on airplanes or military vehicles.
100 Hazen	1.03	Low NCO demand, fast drying, high hardness and good pigment wetting. Recommended for air-drying and forced drying high-solids two-component primers and topcoats for industrial applications.
100 Hazen	1.04	Air drying as well as forced drying high-solids two-component topcoats for industrial applications. MACRYNAL SM 2703 is especially suited for industrial topcoats providing a low content of volatile organic compounds (VOC) and high pigment loading.
100 APHA	1.04	High hardness and toughness with good flexibility, high gloss, good filling power, good weather and light stability and good resistance to solvents and gasoline.
35 APHA	1.04	High build and gloss, good hardness build-up, good mechanical properties and good outdoor durability.
50 APHA	1.04	VOC compliant (< 420 g/l) coatings with very fast drying at ambient temperatures, high build and gloss, good hardness build-up, good mechanical properties and good outdoor durability.
100 APHA	1.06	High flexibility, lightfast and weather-stable.
50 APHA	1.03	Fast drying, good hardness and outdoor durability, and good overall performance.
65 APHA	1.05	High solids content at application viscosity. Fast drying, good hardness and outdoor durability, and good overall performance.
35 APHA	1.05	Fast drying, high build and gloss, excellent mechanical properties and good outdoor durability.
50 APHA	1.05	VOC compliant (< 420 g/l) coatings with ultra fast drying at ambient temperatures, excellent hardness build-up, high build and gloss, good mechanical properties and good outdoor durability.
50 APHA	1.05	VOC compliant (< 420 g/l) coatings with ultra fast drying at ambient temperatures, high build and gloss, good hardness build-up, good mechanical properties and good outdoor durability.
50 APHA	1.05	VOC compliant (< 420 g/l) coatings with ultra fast drying at ambient temperatures, high build and gloss, good mechanical properties and good outdoor durability.
50 APHA	1.06	Super fast drying, high build and gloss, good mechanical properties, good chemical resistance and good outdoor durability.
100 Hazen	1.04	Excellent pigment wetting, chemical resistance, mechanical properties and outdoor stability. For applications including car refinish, ACE as well as high quality industrial coatings.
200 Hazen	1.09	High quality ultra high solids two-component industrial coatings with high gloss, very good mechanical properties, very good chemical resistance and ease of application. MACRYNAL VSM 2805 is especially well-suited for thick-layer coatings .
35 APHA	1.04	High build and gloss, good mechanical properties, good chemical resistance and good outdoor durability.
30 APHA	1.04	High build and gloss, good mechanical properties, good chemical resistance and good outdoor durability.
30 APHA	1.04	Low spray viscosity, high build and gloss, good mechanical properties, good chemical resistance and good outdoor durability.
50 APHA	1.06	Outstanding appearance, good mechanical properties, good chemical resistance and good outdoor durability.
35 APHA	1.06	Excellent scratch resistance.
35 APHA	1.04	High build and gloss, excellent mechanical properties, good chemical resistance and good outdoor durability.

Solvent borne acrylic resins

Product name	OH (%) (on solids) ↓	HEW (as supplied)	NV (%)	Solvents	Viscosity (23°C, Pa.s)	AV as supplied (mg KOH/g)
ThermoPlastic Acrylic						
SETALUX® 2117 XS-30	0.6	9140	31	BuAc / Xyl	1.6	max. 0.3
SETALUX XCS1518 BA-45	0.8	4720	45	BuAc	6.5	4.0
SETALUX 2120 XS-40	1.7	2380	42	Xyl / BuAc	3.5	4.0
VIACRYL® SC 121/60X	-	-	60	Xyl	7.0	12
VIACRYL SC 124/50WS	-	-	50	WS	5.8	max. 2.5
VIACRYL SC 134/50WS165	-	-	50	WS 165	2.2	max. 1.5
VIACRYL SC 160/60T	-	-	60	Tol	12	7.2
VIACRYL SC 166/45BAC	-	-	45	BuAc	0.52	max. 1.4
VIACRYL SC 200/40X *	-	-	40	Xyl	1.6	12
VIACRYL VSC 2990	-	-	100	-	0.90	max. 18
VIACRYL VSC 5721/65BAC	-	-	65	BuAc	0.45	17
VIACRYL VSC 5745	-	-	100	-	0.88	max. 25
ThermoSetting Acrylic						
SETALUX 1385 BX-51 *	1.7	1920	52	Xyl / n-But	0.90	5.4
VIACRYL SC 303/65XB	2.4	1078	65	Xyl / n-But	24	8.1
VIACRYL SC 341/60SNABAC	2.6	1087	60	SN / BuAc	1.5	9.9
SETALUX 1756 VV-65	2.7	970	65	SN	4.0	11
SETALUX 1757 VV-70	3.6	670	70	SN	5.0	8.4
VIACRYL SC 370/75SNA	3.6	625	75	SN	5.6	7.5
SETALUX 1795 VX-74	4.5	510	74	SN / Xyl	4.3	8.2
SETALUX 1797 SS-70	4.5	540	70	SN / BuAc / PGMEA	1.6	9.4
VIACRYL SC 444/50BSNB	-	-	50	n-But / SN 180-210	2.0	7.2
Non aqueous Acrylic Dispersion						
SETALUX 1850 SA-50	-	-	50	AHC / n-But	0.10	max. 1.5
Acrylic two-component NCO free						
SETALUX 8402 XS-55	-	-	56	Xyl / BuAc	12	10
SETALUX 8403 SS-55	-	-	56	BuAc	3.4	8.8
SETALUX 8502 BX-60	-	-	60	Xyl / n-But	2.1	max. 1.2
SETALUX 8503 SS-60	-	-	60	BuAc	0.28	max. 1.2
MACRYNAL® GF 100/70BAC	-	-	70	BuAc	0,6	-

Color (max. value)	Density (kg/dm ³)	Technical features
200 APHA	0.95	Fast drying.
-	0.97	For one- and two component primers and monocoats with very good adhesion on propolyene, even without treatment, good water resistance, good storage stability at low temperature.
35 APHA	0.97	Very fast drying and good compatibility.
3 Iodine	1.00	Sole binder for road-marking paints. Fast drying primers and top coats for nonferrous metal and plastic substrates.
5 Iodine	0.90	Maintenance paints, architectural paints. Air-drying and forced drying industrial enamels. Satin gloss enamels and flat structured enamels.
200 Hazen	0.87	Sole binder for full tone masonry paints or resin modified plasters.
3 Iodine	0.97	Sole binder for road marking paints with good adhesion, rapid film loading capacity and non discoloration properties.
4 Iodine	0.97	Rapid drying industrial finishes and aerosol coatings.
2 Iodine	0.96	Air and forced drying industrial coatings with fast drying and high hardness. Specialty coatings for glass, precious metals and plastics.
200 Hazen	0.99	Highly elastic adjusted basis resin for high-grade two-component thick-layer roadmarking paints with very good weather and abrasion stability.
10 Iodine	0.98	Sole binder for non-aromatic roadmarking paints with high solid content.
25 Iodine	1.06	Hard-elastic adjusted basis resin for high-grade two-component thick-layer roadmarking paints with very good weather and abrasion resistance.
50 APHA	0.99	Good compatibility with cellulose aceto-butyrate resins.
80 Hazen	1.01	Automotive metallic basecoats (wet-on-wet process). Stoving enamels with good outdoor stability and color retention.
2 Iodine	0.99	Superior radiance, high surface hardness, excellent weather resistance for uni-colored automobile finishes and isocyanate systems. With light stabilizers for clear coats over metallic.
125 APHA	1.01	High solids content at spraying viscosity, good durability and gloss.
125 APHA	1.03	High solids content at spraying viscosity, excellent gloss, good mechanical properties, good solvent and acid resistance, adhesion and excellent accelerated weathering test.
100 Hazen	1.03	For automotive finishes or general industrial purposes. Resin additive for improving solids content, body and gloss of stoving enamels and two-component systems. Resin base for pigment pastes.
50 APHA	1.02	Excellent appearance (DOI, flow), good outdoor durability, good mechanical properties, good solvent and acid resistance. High solids content at spraying viscosity.
50 APHA	1.03	Excellent application properties, good appearance, good mechanical properties such as flexibility and carwash resistance and outstanding weathering properties.
4 Iodine	0.95	Selfcrosslinking. Top quality single coats for domestic appliance. Clear and pigmented exterior coatings for cans. Great hardness combined with good flexibility. Excellent chemical resistance.
-	0.91	Low viscosity, very good application properties, excellent yellowing resistance.
250 APHA	1.00	Amine functional acrylic with amine equivalent weight 1300 g/eq. Fast drying, high gloss, good build, good mechanical properties and excellent outdoor durability.
250 APHA	1.00	Amine functional acrylic with amine equivalent weight 655 g/eq. Fast drying, high gloss, good mechanical properties and excellent outdoor durability. Lower viscosity.
100 APHA	1.01	Epoxy functional acrylic with epoxy equivalent weight 570 g/eq. Fast drying, high gloss, good mechanical properties and excellent outdoor durability.
100 APHA	1.02	Epoxy functional acrylic with epoxy equivalent weight 569 g/eq. Fast drying, high gloss, good mechanical properties and excellent outdoor durability. Lower viscosity.
100 Hazen	1.04	Epoxy functional acrylic with epoxy equivalent weight 400 g/eq. low VOC topcoats with good outdoor resistance.

Solvent borne alkyd resins

Product name	NV (%) ↓	Solvents	Oil type	Viscosity (23°C, Pa.s)	Color (max. value)	OH - % (on solids)
Long Oil Alkyd						
SETAL® 293	99	-	Unsaturated fatty acids	1.0	8 Gardner	-
SETAL 304	99	-	Unsaturated fatty acids	3.2	8 Gardner	-
VIALKYD® AR 680	99	-	Dehydrated castor oil	0.27 ^(50WS)	7 Iodine	-
VIALKYD SAL 766	99	-	Linseed oil	0.26 ^(75X)	10 Iodine	-
VIALKYD VAF 6091	99	-	Vegetable fatty acids	0.62	6 Iodine	-
SETAL 305 SM-90	90	D40	Unsaturated fatty acids	2.5	8 Gardner	-
SETAL 312 SM-88	88	D40	Unsaturated fatty acids	7.5	3 Gardner	-
SETAL 301 SM-83 *	83	D40	Unsaturated fatty acids	4.8	9 Gardner	-
SETAL 270 SM-70 *	70	D40	Soya bean oil	5.5	6 Gardner	-
SETAL 1257 SM-69	69	D40	Soya bean fatty acids	4.8	6 Gardner	-
SETAL 62 EHV SM-60	60	D40 / Xyl	Soya bean oil	5.3	6 Gardner	-
Long Oil Alkyd, Styrene Modified						
VIALKYD® AV 608/60WS	60	WS	Linseed oil	0.23	10 Iodine	-
Long Oil Alkyd, Urethane Modified						
SETAL 321 SM-75	75	D40	Mixed vegetable oils	6.0	8 Gardner	-
VIALKYD TO 608/60WS *	60	WS	Soya bean oil	0.42 ^(50WS)	10 Iodine	-
SETAL A U 601 TB *	55	WS	Soya bean oil	1.2	3 Iodine	-
SETAL A U 601 HV TBA	51	D40	Soya bean oil	2.9	5 Iodine	-
Medium Oil Alkyd						
SETAL 707 BA-75	75	BuAc	Tall oil fatty acids	5.0	6 Gardner	-
VIALKYD AC 451N/70SNB	70	SN 180-210	Synthetic fatty acids	4.8	3 Iodine	4.2
SETAL 196 XX-65	65	Xyl	Unsaturated fatty acids	4.8	7 Gardner	-
SETAL 199 SS-55	55	WS / Xyl	Unsaturated fatty acids	7.6	7 Gardner	-
SETAL A F 48 TB/X	55	WS / Xyl	Vegetable fatty acids	5.4	5 Iodine	1.3
VIALKYD VAF 7109/55SNA	55	SN	Vegetable fatty acids	0.50	10 Iodine	1.5
Medium Oil Alkyd, Silicone Modified						
SETAL 1601 WS-65	65	WS	Unsaturated fatty acids	2.6	4.5 Gardner	-

HEW (as supplied)	AV as supplied (mg KOH/g)	Density (kg/dm ³)	Technical features
-	9.5	0.99	Very good brushability, leveling, filling, high gloss, low yellowing tendency and good through hardening. Suitable as reactive diluent.
-	7.5	1.00	Good drying, good durability and good pigment dispersing properties.
-	max. 10	1.06	Excellent through drying properties for anticorrosion and marine paints. Combinations with cyclized rubber e.g. ALPEX® CK 450. Architectural paints.
-	7.0	1.10	Good pigment dispersion properties, used for offset and letterpress printing.
-	max. 10	0.95	High Solids resin for the production of primers, wood stains and top coats.
-	6.3	0.99	Very good drying, good durability and good pigment dispersing properties.
-	6.3	0.97	Excellent outdoor durability and very low yellowing in the dark. Largely based on renewable raw materials.
-	max. 7.6	0.98	Excellent durability and drying. Minimal yellowing.
-	6.7	0.96	Good color fastness, brushability, body and flow, good durability.
-	4.4	0.90	Very good durability and drying, very little yellowing.
-	5.5	1.00	Fast drying, excellent hardness, very good water resistance and durability.
-	max. 4.0	0.90	Sole binder for aluminium paints with good gloss retention. Used for zinc dust paints, mica iron paints and anticorrosive paints.
-	max. 2.8	0.95	Additive resin to improve solids, abrasion and chemical resistance. Good drying and hardness.
-	max. 2.0	0.98	Easy to use, excellent weather resistance, good water and corrosion resistance, high gloss. Used as single binder in wood, floor and industrial finishes and primers.
-	max. 3.0	0.92	Rapid drying, excellent hardness, high abrasion resistance and good long-term flexibility.
-	max. 3.0	0.91	Good hardness and flexibility, high resistance to wear and abrasion, good resistance to water and household cleaning agents.
-	7.6	1.04	For high solids acid catalyzed and nitrocellulose systems.
572	max. 4.0	1.05	For cross-linking with amino resins to formulate stoving systems for automotive top-coats and one-coat systems for household and electrical appliances.
-	max. 7.9	1.01	Very fast drying and through drying properties, good yellowing resistance, gloss and gloss retention.
-	max. 6.7	0.93	Good drying properties, very good body, good color, gloss retention and exterior durability.
2380	4.0	0.94	Fast drying, good through-drying and curing to form defect-free films, even in thick coats. Good yellowing resistance, gloss and good gloss retention. Good weather stability.
2040	max. 6.0	1.00	Rapid initial and through drying. High gloss, outstanding yellowing resistance, excellent gloss retention and weather resistance.
-	max. 6.7	0.96	Excellent outdoor durability, good drying.

Solvent borne alkyd resins

Product name	NV (%) ↓	Solvents	Oil type	Viscosity (23°C, Pa.s)	Color (max. value)	OH - % (on solids)
Short Oil Alkyd						
VIALKYD® AC 290/70MPAC	70	MPA / Xyl	Synthetic branched fatty acids	0.14 ^(50MPA)	5 Iodine	-
SETAL® 84 XX-70 *	69	Xyl	Synthetic fatty acids	5.1	2 Gardner	3.0
SETAL A F 300 SN	65	SN	Mixed fatty acids	4.7	5 Iodine	3.5
SETAL A F 26 X	60	Xyl	Vegetable fatty acids	2.5	5 Iodine	2.2
SETAL 142 XX-60	60	Xyl	Soya bean fatty acids	3.7	5 Gardner	-
SETAL A F 310 SN	60	SN	Saturated fatty acids	4.4	3 Iodine	1.8
SETAL 118 XX-60	60	Xyl	Dehydrated castor oil	5.2	8 Gardner	-
Short oil Alkyd, Acrylic Modified						
VIALKYD AY 120/65XMPAC	65	Xyl / MPA	Vegetable fatty acids	0.42	5 Iodine	3.0
SETYRENE™ 78 XS-55	55	BuAc / Xyl	Tall oil fatty acids	1.0	3 Gardner	0.9
VIALKYD AY 402/50X	50	Xyl / i-But	Linseed oil	0.72 ^(40Xyl)	20 Iodine	-
Short oil Alkyd, Styrene Modified						
VIALKYD AV 384/70X	70	Xyl	special fatty acids	0.22 ^(50Xyl)	10 Iodine	-
VIALKYD AV 352M/50X	50	Xyl	Dehydrated castor oil	0.28 ^(40Xyl)	10 Iodine	-

HEW (as supplied)	AV as supplied (mg KOH/g)	Density (kg/dm ³)	Technical features
-	max. 11	1.10	Grinding resin for pigment pastes. Excellent compatibility with alkyd stoving paints, thermosetting acrylic paints, NC-lacquers, acid curing, alkyd- or acrylic-isocyanate enamels.
820	6.4	1.07	Very good durability, excellent color and gloss retention, high body. Suitable for acid catalyzed, nitrocellulose, two-component and stoving systems.
740	max. 4	1.04	High body, good flexibility, good resistance to acids and waxes, excellent adhesion to various primer surfacers and, in one-coat finishes, to bare metal. Very good pigment wetting.
1300	6.5	1.02	Very rapid drying and curing, high resistance to yellowing, good weather stability and good anti-corrosion properties.
-	6.0	1.02	Very fast drying, good elasticity and yellowing resistance (also at elevated temperature), good adhesion on steel.
1550	8.0	1.02	Highly reactive, high resistance to yellowing during overbaking, high body and gloss, good gloss retention and chalking resistance.
-	9.6	1.03	Good hardness, scratch resistance, adhesion and impact resistance, good gloss retention, very good durability, excellent pigment wetting properties.
860	max. 8.0	1.01	Very rapid initial and through drying. Quick rise in hardness, long pot life. Good body, excellent gloss retention, superior weather resistance. Designed for the formulation of glossy refinish enamels and enamels for railroad coaches, busses, etc.
3430	4.6	1.02	Fast drying, good pigment wetting properties, good compatibility.
-	max. 10	0.98	Acrylic, vinyl and urethane modified. Extremely fast initial and through drying. Excellent recoatability at any time. Excellent adhesion to steel and aluminium.
-	max. 8.4	0.98	Low viscosity, Quick drying, Excellent pigment wetting.
-	max. 4.0	0.97	Rapid initial and through drying. Excellent adhesion to steel and aluminium.

Solvent borne polyester resins

Product name	NV (%) ↓	Solvents	Viscosity (23°C, Pa.s)	Color (max. value)	OH - % (on solids)	HEW (as supplied)
Polyester Polyol						
SETAL® 1406	100	-	3.0	80 APHA	9.4	180
SETAL 1606 BA-80	80	BuAc	3.8	125 APHA	5.2	410
DUROFTAL® FC 9511/80BAC	80	BuAc	3.5	3 Iodine	4.5	470
SETAL 168 SS-80 *	79	BuAc / Xyl	2.4	100 APHA	4.3	500
DUROFTAL PI 2801/78BAC	78	BuAc	10	30 Hazen	7.0	313
DUROFTAL VPI 2803/78BAC	78	BuAc	13	50 Hazen	6.0	400
SETAL 1603 BA-78	76	BuAc	6.0	150 APHA	5.4	410
DUROFTAL FC 2828/75BAC	75	BuAc	3.5	100 Hazen	6.5	350
SETAL D RD 181 X *	75	Xyl	7.5	150 APHA	4.9	460
SETAL 169 SS-67	67	BuAc / Xyl	6.6	300 APHA	8.0	320
Saturated Polyester						
DUROFTAL VPE 6117	100	-	9	80 Hazen	3.9	435
SETAL 1703 XX-75	73	Xyl	3.6	150 APHA	3.0	780
SETAL 1715 VX-74	72	SN / Xyl	5.4	50 APHA	4.4	540
VIALKYD® AN 950/70X	70	Xyl	2.7	5 Iodine	3.0	800
DUROFTAL VPE 6128/70SNABG	70	SN / BG	2.2	3 Iodine	2.4	1010
DUROFTAL PE 6163/66SNABG	66	SN / BG	0.60	2 Iodine	1.7	1515
SETAL 189 XX-65	65	Xyl	1.7	100 APHA	2.3	1140
SETAL 1671 SS-65	65	SN / BDGA / i-But / Xyl	1.2	8 Gardner	2.9	900
SETAL 186 SS-65	65	BuAc / Xyl	1.5	100 APHA	3.3	790
SETAL 173 VS-60	60	SN / MP / Xyl	1.4	100 APHA	2.4	1180
DUROFTAL PE 912/60SNA	60	SN / MP / Xyl	1.4	5 Iodine	2.4	1180
DUROFTAL VPE 6104/60MPAC	60	MPA	6.0	3 Iodine	2.7	1040
Saturated Polyester, silicone modified						
VIALKYD VTS 1202/65MPAC	65	MPA / Xyl / n-But / Met	8.2	5 Iodine	6.0	430

AV as supplied (mg KOH/g)	Density (kg/dm ³)	Technical features
max. 3.0	1.08	Low-colored reactive diluent for two-component coatings.
8.4	1.08	High build and gloss, very good outdoor durability, good mechanical properties and good chemical resistance.
max. 3.2	1.05	Fast curing, ultra-high solids with very good chemical properties, high gloss and excellent exterior durability.
max. 1.7	1.10	High flexibility, even at low temperatures. Good outdoor durability.
16	1.11	High hardness, excellent solvent and chemical resistance, superior weathering stability.
17	1.14	High hardness, high gloss and depth of image, excellent solvent and chemical resistance, superior weathering stability.
16	1.08	High build and gloss, very good outdoor durability, good mechanical properties and good chemical resistance.
max. 7.5	1.07	Fast curing, ultra-high solids with very good chemical properties, high gloss, excellent exterior durability and adhesion direct to metal.
max. 12	1.08	Weather resistant, good resistance to yellowing and aging, also suitable for pigment pastes.
max. 2.8	1.08	Excellent outdoor durability, excellent solvent and chemical resistance.
max. 10	1.11	As a combination partner for other resins, DUROFTAL® VPE 6117 contributes to increased solids content of the paint and to improved build, gloss and flexibility of the paint film in sb and wb formulations.
7.6	1.05	High solids content at spraying viscosity, good hardness and gloss.
8.2	1.05	Extremely good outdoor durability, no loss of gloss and no yellowing in QUV, high solids content at spraying viscosity. Good mechanical properties and chemical resistance. Broad compatibility.
max. 8.0	1.07	Outdoor durable, non-yellowing one coat stamping and deepdrawing coil-coating systems for aluminium, sheet steel and tin sheet.
max. 8.4	1.10	Low viscous oil free polyester resin and preferably used to formulate coil coating topcoats.
max. 4	1.06	Coil coating primers, topcoats and high performance industrial stoving enamels.
13	1.06	High hardness, very good adhesion and flexibility, good chemical and water resistance, good compatibility with CAB and good pigment wetting.
max. 5.9	1.05	Urethane modified. Excellent chip resistance and mechanical properties, very good appearance.
5.9	1.00	Excellent pigment wetting, good hardness, very good adhesion and flexibility, good chemical and water resistance.
4.8	1.04	High hardness, very good adhesion and flexibility, good chemical and water resistance.
max. 6.0	1.04	High hardness, very good adhesion and flexibility, good chemical and water resistance.
max. 3.0	1.14	Replacement of epoxy resins in phenol-epoxy-systems in order to get BADGE or Bisphenol A free paints.
max. 7.0	1.12	Excellent mechanical properties such as hardness, impact resistance and adhesion even to difficult substrates. Its silicone content has given excellent results after more than 5 years Florida exposure, with high non chalking resistance and gloss retention.

Solvent borne epoxy resins and hardeners

Product name	NV (%) ↓	Solvents	Oil type	Viscosity (23°C, Pa.s)	AEW (as supplied)	EEW (as supplied)
Epoxy ester						
DUROXYN® EF 900/60X	60	Xyl	DCO fatty acid	3.8	-	-
DUROXYN EF 935/60X	60	Xyl	DCO fatty acid, soya fatty acid	0.43	-	-
Epoxy resin						
BECKOPOX™ EP 2688/80MEK	80	MEK	-	4.2	-	800
BECKOPOX EM 460/60IBX	60	i-But / Xyl	-	1.1	-	-
Amine hardener						
BECKOPOX EH 651/70X	70	Xyl	-	1.1	255	-
BECKOCURE™ EH 2240/70MP	70	MP	-	10	350	-
Carbamide resin						
RESAMIN® HF 480	100	-	-	8.5	-	-
Plasticized urea resin						
VIAMIN® HP 366/60IBE	60	Eth / i-But / n-But / Xyl	Vegetable fatty acids	0.84	-	-
Moisture curing resin						
BECKOCOAT™ PU 428/51XMPAC	51	Xyl / MPA	-	0.43	-	-
BECKOCOAT VPU 4204/40LG	40	SN / MPA / Xyl	-	0.26	-	-
BECKOCOAT VPU 6072/38LG	38	SN / MPA	-	0.10	-	-

Density (kg/dm ³)	Technical features
0.97	Superior adhesion. Good hardness, impact resistance and flexibility. High pigment loading, capable of high gloss. Excellent resistance to temperature, water and alkali. Used in anticorrosive paint systems and primers, zinc rich primer surfacers.
1.00	Very fast air drying. Excellent hardness, flexibility and adhesion. Excellent resistance to alkali, excellent color retention at elevated temperatures. Recommended for industrial bake enamels and anticorrosive primers.
1.08	Internally flexibilised solid epoxy resins mainly suited for high solids solvent based anti-corrosion primers, preferably cured with polyamines, polyamidoaminos or amine adduct. Gives good adhesion and flexibility.
1.02	Modified epoxy resin. Excellent adhesion to steel and nonferrous metals, high corrosion protection and good recoatability. Used in conjunction combination with polyvinylbutyral (PVB) for one- and two-component wash primers and weldable shop primers.
0.95	Polyamidoamine hardener with long potlife, good flexibility, adhesion and chemical resistance. For both metallic and mineral substrates.
1.08	Polyamine hardener, free of volatile amines. In combination with suitable epoxy resins it enables the formulation of high performing two-component high solids anti-corrosion primers.
1.10	Carbamic resin based on butylurethane and formaldehyde. Plasticizing component and compatibility promoter for thermoplastic backbone coating resins (e. g. nitrocellulose, PVC copolymers, cyclized rubber, PVB), alkyd/amino bake enamels and acrylic/isocyanate combinations.
1.01	Very low formaldehyde emission, excellent through drying. Extended processing time, speedy handling. Outstanding suitability for low-pollutant one and two-component paints for industrial furniture coating and for parquet floor sealing.
0.99	Rapid curing, radiant brilliance, superior abrasion resistance, outstanding impact resistance, excellent adhesion.
0.98	Rapid curing, good abrasion resistance and excellent resistance to chemicals. Contains flattening agent.
1.00	Free TDI < 0.5 % (as supplied), rapid curing, very high gloss, excellent durability, high impact resistance and good adhesion.

Unsaturated polyester resins

Product name	NV (%)	Solvents	Viscosity (23°C, mPa.s)	Color (max. value)	AV as supplied (mg KOH/g)
Standard Unsaturated Polyester Resin					
ROSKYDAL® 300/1	70	Sty	0.65	150 Apha	18
ROSKYDAL 500 A	76	Sty	1.8	100 Apha	15
ROSKYDAL 502 BA	80	BuAc	4.5	100 Apha	18
ROSKYDAL 550	68	Sty	1.6	100 Apha	15
ROSKYDAL 620	69	Sty	0.85	100 Apha	16
ROSKYDAL 850 W	100	-	12	3 Iodine	17
ROSKYDAL E 65	65	Sty	0.60	150 Apha	12
ROSKYDAL E 70	66	Sty	0.95	3 Iodine	12
ROSKYDAL F 8100	75	Sty	2.8	2 Iodine	20
Amine-accelerated Unsaturated Polyester Resin					
ROSKYDAL K 14 M	64	Sty	0.82	15 Iodine	25
ROSKYDAL K 14 VT	64	VT	1.2	15 Iodine	25
ROSKYDAL K 27/1	70	Sty	2.2	10 Iodine	25
ROSKYDAL K 30	65	Sty	0.50	15 Iodine	12
ROSKYDAL K 36	62	Sty	0.40	15 Iodine	10
ROSKYDAL K 40 T	66	Sty	thixotropic	-	10
ROSKYDAL K 45	65	Sty	0.58	15 Iodine	10
ROSKYDAL K 58	61	Sty	0.50	12 Iodine	20
ROSKYDAL K 65	67	Sty	0.72	10 Iodine	10
ROSKYDAL K 65 VT	67	VT	1.4	15 Iodine	10
ROSKYDAL K 68	65	Sty	0.75	10 Iodine	10

Density (kg/dm ³)	Technical features
1.10	Tough but flexible, very good leveling and high scratch resistance.
1.12	High brilliance, little yellowing in darkness, very good leveling properties and scratch resistance, reproducible matt effects.
1.15	For monomer-free coatings in thin layers, good resistance to chemicals, solvents and yellowing in the light and dark, scratch resistant.
1.12	For the elastification of harder Roskydal types, yields permanent flexibility, improves polishing of gloss polyester systems, improves scratch resistance.
1.13	High reactivity, yields hard polymers.
1.12	Monomer-free binder, water emulsifiable.
1.11	Universal flexibilising resin with air-drying properties, also for primers, knifing- and spray fillers.
1.12	Soft resin for the flexibilisation of all ROSKYDAL® types, especially for wood/furniture coatings.
1.16	Fast curing and low greening; for clear and pigmented sealers with good sandability and good leveling.
1.11	Highest reactivity; yields pale, hard polymers; very good air-drying properties, in combination with ROSKYDAL K 65 recommended for universal putties.
1.11	Styrene free. Highest reactivity; yields pale, hard polymers; very good air-drying properties, in combination with ROSKYDAL K 65 VT recommended for universal putties.
1.15	High reactivity, yields pale, hard polymers.
1.12	High reactivity, medium hardness, ideal sole binder for car body repair fillers.
1.12	High reactivity, medium hardness, ideal sole binder for car body repair fillers.
1.12	For highly thixotropic knifing fillers, especially for use in vehicle refinishing, yields polymers of medium flexibility.
1.15	High reactivity which is cold-curing, even around 0 °C, and yields polymers of medium flexibility.
1.10	High reactivity, yields polymers of medium flexibility, sole binder for all automotive substrates, good adhesion properties on galvanised car panels.
1,09	High reactivity, yields highly flexible polymers, sole binder for flexible UP-fillers, but in combination with ROSKYDAL K 14 M also suitable for universal putties.
1.11	Styrene free. High reactivity, yields highly flexible polymers, sole binder for flexible UP-fillers, but in combination with ROSKYDAL K 14 VT also suitable for universal putties.
1.14	Medium reactivity, yields highly flexible polymers, ideal sole binder for overbaking resistant fillers.

Hydrophobic polyol and Bisoxazolidine resins

Product name	OH - % (on solids) ↓	HEW (as supplied)	NV (%)	Solvents	Viscosity (23°C, mPa.s)	AV as supplied (mg KOH/g)
Polyester Polyol						
SETATHANE™ D 1160	5.4	315	100	-	1.0	1.7
Polyether-ester Polyol						
SETATHANE D 1150	4.7	360	100	-	3.5	max. 2
SETATHANE D 1156	5.2	325	100	-	1.1	max. 2
SETATHANE D 1145	7.1	240	100	-	3.0	max. 2
Polyol Emulsion						
SETATHANE D E 2761	3.6	680	70	WA	0.25	-
SETATHANE D E 2656	4.3	565	70	WA	0.25	-
SETATHANE D E 2767	18	110	90	WA	1.2	-
Urethane Bisoxazolidine						
SETA H 2959	-	330 (NH)	100	-	3.0	-

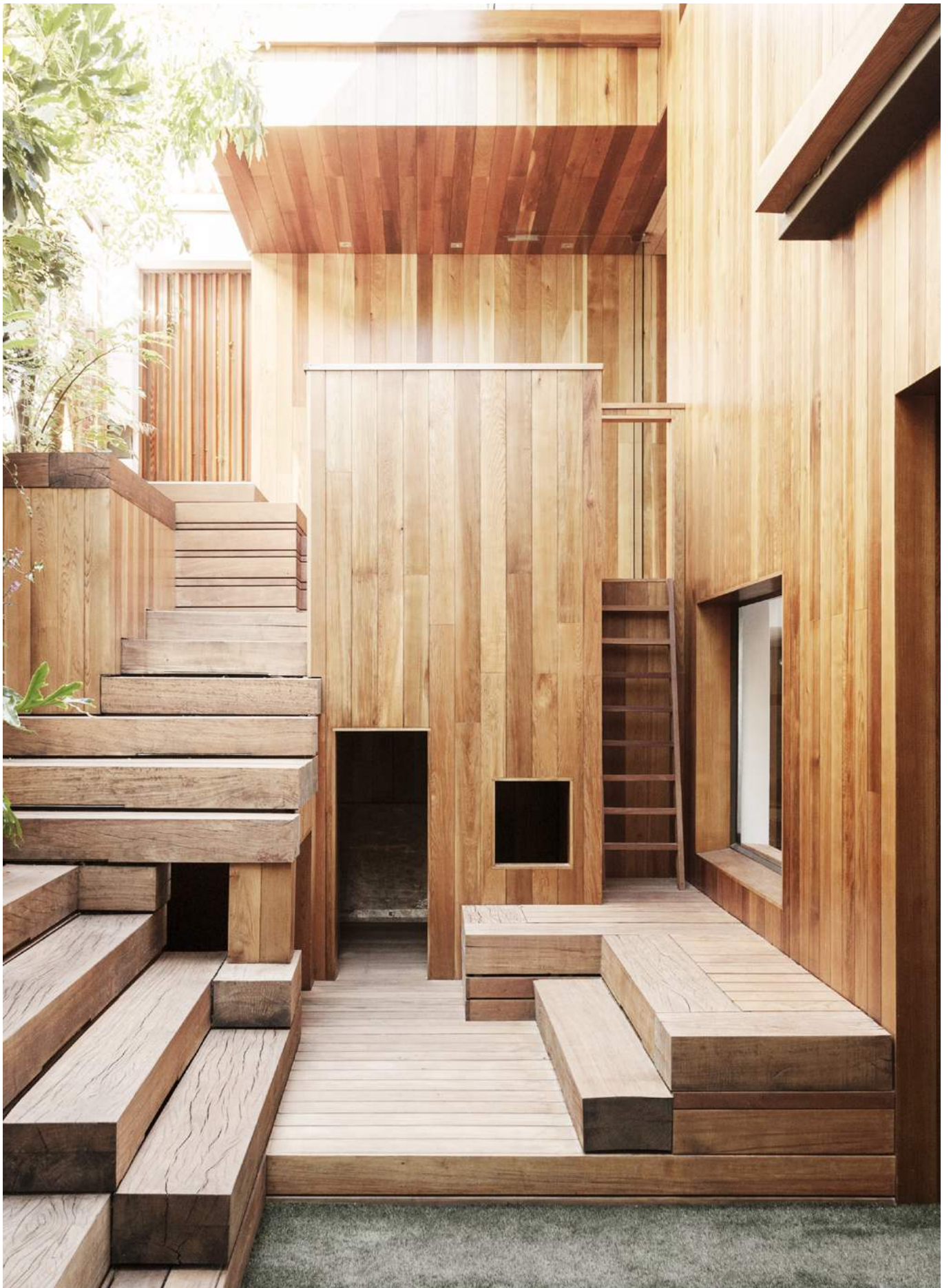
pH	Color (max. value)	Density (kg/dm ³)	Technical features
-	5 Iodine	0.99	High flexibility and good mechanical strength.
-	5 Iodine	1.01	Tough and flexible, hard-wearing and chemical resistant.
	5 Iodine	0.98	Especially suitable for combination with SETATHANE 1145 and SETATHANE D 1150 in the formulation of solvent-free, self leveling polyurethane coatings.
-	5 Iodine	1.01	Hard to tough but flexible films which are resistant to abrasion and chemicals.
7.0	-	0.99	Very good thermal-shock resistance and resistance to organic and inorganic acids, alkalis and solvents.
7.0	-	0.97	Very good resistance to organic and inorganic acids, alkalis and solvents.
6.5	-	1.00	Outstanding resistance to organic and inorganic acids, alkalis and solvents.
-	4 Iodine	1.07	Latent hardener for polyisocyanates in one-component polyurethane systems in outdoor areas; homogeneous and blister-free hardening of coatings.

Rheology control resins

Product name	Thix index ↓	Viscosity 1/s (23°C, Pa.s)	Viscosity 1000/s (23°C, Pa.s)	NV (%)	Solvents	OH - % (on solids)
Acrylic Polyol, SCA modified						
SETALUX® 91767 VX-60	5.0	6.0	1.2	60	SN / Xyl	4.5
SETALUX 81198 SS-55 YA	7.3	4.0	0.55	55	BuAc	4.0
SETALUX 61767 VX-60	12	14	1.2	60	SN/Xyl	4.5
ThermoSetting Acrylic, SCA modified						
SETALUX 91795 VX-60	7.2	3.8	0.53	60	SN / Xyl	4.5
SETALUX 91757 VX-60	9.4	8.5	0.90	60	SN / Xyl	3.6
SETALUX 91756 VS-60	12	14	1.2	60	SN / BuAc	2.7
SETALUX 91795 VX-60 YB	18	12	0.65	60	SN / Xyl	4.5
Polyester Polyol, SCA modified						
SETAL® 81462 SS-55	16	2.8	0.18	54	BuAc / Xyl	5.4
SETAL 82166 SS-64 *	16	6.2	0.40	63	BuAc / Xyl	5.4
Saturated Polyester, SCA modified						
SETAL 91703 SS-53	10	3.1	0.30	52	SN 150 / Xyl	3.0
SETAL 90173 SS-50	40	20	0.50	50	SN / Xyl / MP	2.4
SETAL 91715 SS-55	64	14	0.22	52	Xyl / SN	4.3
Long Oil Alkyd, thixotropic modified						
SETAL 50293 HD-85 YA	-	-	-	85	D60	-
VIALKYD® AS 6140SCA/49SD60	-	-	0.24 (10,000/s)	49	D60	-
Pseudoplastic Acrylic Dispersion						
SETAQUA® 6801	100	22	0.22 (at 500/s)	24	WA	-
SETAQUA 6803	107	32	0.30 (at 500/s)	24	WA	0.8
SETAQUA 6802	162	65	0.40 (at 500/s)	24	WA	1.2

HEW (as supplied)	Density (kg/dm ³)	Technical features
630	1.00	Excellent anti-sagging effect, good appearance, adhesion, durability, chemical and petrol resistance and excellent application properties.
770	1.00	High build and gloss, high sagging limit, fast drying, excellent mechanical properties and chemical resistance, good clarity after drying at room temperature, high end hardness and good adhesion results on metallic basecoats.
630	1.02	Excellent anti-sagging effect, excellent appearance, adhesion, durability, chemical and petrol resistance and excellent application properties.
630	0.98	Excellent appearance (DOI, flow), excellent application properties, good sagging limit, good outdoor durability, good mechanical properties, good solvent and acid resistance.
790	0.99	Excellent gloss, good mechanical properties, solvent and acid resistance, good adhesion and excellent accelerated weathering test, good sagging limit, excellent application properties.
1050	0.97	High solids content at spraying viscosity, excellent hardness, very good filling power and gloss, good outdoor durability, good chip resistance, very good petrol and solvent resistance, very good acid resistance, good sagging limit.
630	0.98	Excellent appearance (DOI, flow), excellent application properties, excellent sagging limit, good outdoor durability, good mechanical properties, good solvent and acid resistance.
580	1.04	Good anti-sag property with good leveling and clarity after drying at increased or ambient temperature. Good outdoor durability, mechanical properties and excellent yellowing resistance.
500	1.05	Good anti-sag property with good leveling and clarity after drying at increased or ambient temperature. Good outdoor durability, excellent mechanical properties.
1090	0.98	Prevents sagging of higher solids systems without effect on the gloss of the system.
1420	0.97	Good compatibility with CAB, excellent rheology control, good metallic effect, good adhesion and flexibility.
760	0.94	Excellent anti-sagging effect, extremely good outdoor durability, high solids content at spraying viscosity, good mechanical properties and chemical resistance.
-	0.90	Almost insensitive to higher temperatures and presence of polar solvents. Very high solids content.
-	0.91	Liquid pumpable thixotropic urethane alkyd based on soya bean oil, which can be used as sole binder or in combination with other alkyds for decorative paints and wood stains.
-	1.02	Pseudoplastic after neutralization, good aluminium orientation, good atomisation, insoluble in organic solvents, excellent stability. Low co-solvent demand.
8850	1.03	Pseudoplastic after neutralization, good aluminium orientation, good atomisation, insoluble in organic solvents, excellent stability. High hardness. For stoving systems.
5900	1.03	Pseudoplastic after neutralization, good aluminium orientation, good atomisation, insoluble in organic solvents, excellent stability. High hardness.





Water borne acrylic polyol resins

Product name	OH - % (on solids) ↓	HEW (as supplied)	NV (%)	Solvents	Viscosity (23°C, Pa.s)	AV as supplied (mg KOH/g)
Acrylic Polyol Dispersion						
MACRYNAL® SM 6826w/43WA	4.4	900	43	WA	0.66	max. 6.4
Acrylic Polyol Emulsion						
MACRYNAL SM 6817w/44WA	3.0	1290	44	WA / BP	1.6	12
SETAQUA® 6515	3.3	1140	45	WA / BG / SN	1.2	9.9
SETAQUA 6514	3.5	1210	40	WA / PnP	0.5	9.6
SETAQUA 6516	3.5	1210	40	WA / BG	0.6	9.6
MACRYNAL SM 6810w/42WA	4.1	990	42	WA / BP	1.6	8.2
MACRYNAL VSM 6299w/42WA	4.1	990	42	WA / SN / BG	2.4	10
MACRYNAL VSM 2521w/42WAB	4.2	950	42	WA / n-But	0.70	8.2
SETAQUA 6510	4.2	960	42	WA / BG	0.60	8.8
SETAQUA 6511	4.2	860	47	WA / BG	0.60	7.6
SETAQUA 6513	4.2	920	44	WA / PnP	0.50	7.1
Thermosetting Water Borne Acrylic Resin						
VIACRYL® SC 6807w/43WA	2.3	1740	43	WA / DPM	1.2	18
SETAQUA 6160	2.6	1450	45	WA / BG	-	8.6
VIACRYL® VSC 6273w/44WA	2.6	1500	44	WA / DPM / i-Pro	1.3	15
VIACRYL VSC 6276w/44WA	2.6	1500	44	WA / DPM / i-Pro	1.3	15

pH	Density (kg/dm ³)	Technical features
7.5	1.06	Very high dry film thickness (>150 µm) without defects. Fast surface drying, shear stable with high pigment loading possible. For top quality two-component polyurethane coatings, in particular primer surfacers/fillers and matte topcoats and clear coats.
7.8	1.06	Low NCO demand. Fast drying two-component topcoats with excellent applicability and appearance.
8.0	1.05	High durability, good abrasion- and chemical resistance, compatible with hydrophobic polyisocyanates.
8.5	1.06	Butyl glycol free, fast drying, good durability, abrasion- and chemical resistance.
8.5	1.06	Fast drying, good durability, abrasion- and chemical resistance.
8.5	1.05	High quality two-component topcoats with excellent applicability and appearance. Excellent popping resistance, longer open time than MACRYNAL® VSM 6299w/42WA.
7.8	1.06	High quality two-component topcoats with excellent hardness development at room temperature drying and very good gloss. Great balance of dry time and flow/leveling.
7.8	1.04	High quality clear coats and top coats for wood and metal substrates with excellent resistance to chemicals, high hardness, high abrasion resistance and excellent drying properties.
8.0	1.05	Good durability, abrasion- and chemical resistance.
8.0	1.04	Good appearance, good durability, abrasion- and chemical resistance.
8.0	1.04	Butyl glycol free, good appearance, good durability, abrasion- and chemical resistance.
8.5	1.05	For use in combination with reactive amino crosslinkers such as CYMEL® 327 for high gloss, non yellowing industrial bake systems with excellent leveling properties.
8.2	1.04	High gloss, excellent chemical resistance and durability. Combine with SETALUX® 6100 GR-68.
8.6	1.04	High gloss, good outdoor durability and low yellowing. For use in combination with HMMM type amino crosslinkers such as CYMEL 303 for bake enamel systems.
8.6	1.04	For use with reactive melamine resins such as CYMEL 325 or CYMEL 327 to give low yellowing industrial coating systems with good gloss.

Water borne acrylic resins

Product name	MFFT (approx.) (°C) ↓	NV (%)	Solvents	Viscosity (23°C, Pa.s)	pH	Density (kg/dm ³)
Thermoplastic Acrylic Dispersion						
SETAQUA® 6405	17	40	WA	-	6.5	1.05
SETAQUA 6411	20	40	WA	-	7.5	1.05
VIACRYL® VSC 6279w/45WA	25	45	WA	0.94	8.1 (10WA)	1.04
SETAQUA 6899	30	43	WA	0.16	8.2 (10WA)	1.03
SETAQUA 6717	59	44	WA	-	8.8	1.04
SETAQUA 6406	64	40	WA	-	7.0	1.04
Self-Crosslinking Acrylic Dispersion						
SETAQUA ECO 6794	max. 5	40	WA	max. 0.27	8.5	1.04
SETAQUA 6776	8	44	WA	-	8.9	1.05
VIACRYL SC 6828w/45WA	10	45	WA	0.11	7.5	1.05
VIACRYL VSC 6286w/45WA	11	45	WA	0.30	7.2	1.05
SETAQUA ECO 6778	26	44	WA	-	8.8	1.04
VIACRYL VSC 6295w/45WA	30	45	WA	0.07	7.2	1.05
VIACRYL SC 6805w/50WA	48	50	WA	0.60	7.7	1.05
Self-Crosslinking Acrylic Dispersion, surfactant free						
SETAQUA 6774	max. 5	43	WA	-	8.0	1.05
SETAQUA 6782	11	40	WA	max. 0.27	8.5	1.04
SETAQUA 6756	15	40	WA	max. 0.72	8.0	1.04
SETAQUA 6768	18	40	WA	max. 1.0	8.5	1.03
SETAQUA 6781	22	44	WA	0.75	8.8	1.04
SETAQUA 6784	23	44	WA	max. 1.0	8.8	1.04
SETAQUA 6771	27	44	WA	0.30	9.0	1.05
SETAQUA 6759	30	41	WA	-	8.0	1.00
SETAQUA DTM 6850	37	43	WA	0.16	8.2 (10WA)	1.03
SETAQUA ECO 6788	40	41	WA	1.0	8.2	1.03
SETAQUA 6754	58	40	WA	max. 0.15	9.0	1.05
Special Acrylic Dispersion						
SETAQUA 6302	max. 5	50	WA	2.0	8.0	1.03
SETAQUA 6376	50	50	WA	-	8.0	1.03
SETAQUA 6301	min. 60	40	WA	max. 0.1	5.0	1.04
Multi-domain Dispersions						
RESYDROL® SF 8010w/50WA	0	50	WA	0.52	8.3	1.05
RESYDROL SF 8000w/50WA	2	50	WA	0.70	8.3	1.05
RESYDROL SF 8011w/50WA	4	50	WA	0.52	8.0	1.05

Technical features

Excellent flow, excellent penetration of hard wood, good stainblocking properties, very good sandability in primers.

Excellent penetration of soft wood, good stain blocking properties

Excellent compatibility with alkyd resin emulsions. High shear stability. Fast drying. Excellent non yellowing properties and outdoor durability. Recommended for rapid drying anticorrosion primers and decorative finishes.

Good corrosion resistance without the need for anti-corrosion pigments, very fast drying and good adhesion on various substrates.

Exceptional water and chemical resistance properties as well as dry and wet heat resistance, excellent response to associative thickeners and easily matted. Recommended for high performance topcoats for furniture and kitchen cabinets.

Fast drying and good blocking resistance.

Excellent outdoor durability, good flow and open time, low water uptake.

High gloss, good appearance, good application properties and blocking resistance, good early water resistance.

Adhesion on various plastic substrates like PC, PMMA, PA-6, PVC and PET.

Sole binder for non yellowing decorative paints, woodstains and for industrial applications.

High durability, good blocking resistance.

Fast drying and high hardness. Excellent sandability, chemical resistance and abrasion resistance. Sole binder for water borne wood coatings.

Extremely quick set and through drying. Very high film hardness. Excellent non-yellowing properties.

High durability, translucent, good flexibility.

Fast drying, good hardness and blocking resistance, good adhesion, good chemical resistance and good outdoor durability.

Excellent hardness, fast drying and good sandability and exceptional chemical resistance, good in-can clarity and a solvent borne like film appearance.

Very good adhesion, fast drying, good blocking resistance and good hardness, good chemical resistance, good outdoor durability.

High gloss, good appearance, good application properties and excellent blocking resistance.

Good flexibility and high durability. Especially developed to give excellent response to low amounts of associative thickeners and exhibits excellent viscosity stability.

High gloss, good appearance, good application properties and wood tannin blocking.

Good hardness and fast drying. Particularly suitable for primer and sealer formulations.

Good corrosion resistance without the need for anti-corrosion pigments, good humidity resistance, very good chemical resistance, fast drying and good adhesion on various substrates. ADH-free.

Excellent hardness, fast drying and good sandability, exceptional chemical resistance, good in-can clarity and a solvent-borne like film appearance.

Good hardness, gloss, chemical and blocking resistance.

Excellent flow, leveling and gloss, fast build up of hardness and water resistance, outstanding adhesion, hardness, gloss and water resistance. Outstanding high shear stability; can be used as a grinding medium.

Very efficient pigment dispersing resin, gives fast cohesive strength, water resistance development and improved chemical resistance, including coffeestain resistance.

Additive resin to improve hardness and drying speed. Improves block-resistance, sandability and stackability at addition levels of 10 - 20 weight%.

Aqueous oil-modified multi-domain dispersion, especially suitable as a sole binder for timber/deck stain applications, wooden fences and sidings with outstanding outdoor durability, at various climates.

Aqueous oil-modified, multi-domain dispersion, for versatile use. Indoor Trim applications, multi adhesion coatings and anti-tannin bleed systems, are some of the examples.

Aqueous oil-modified multi-domain dispersion, recommended for timber/deck stain as sole binder or in combination with RESYDROL® VAL 5547. Outstanding outdoor durability, Harder for warmer climates.

Water borne acrylic resins

Product name	MFFT (approx.) (°C) ↓	NV (%)	Solvents	Viscosity (23°C, Pa.s)	pH	Density (kg/dm ³)
Acrylic two-component NCO free						
SETAQUA® 8455	-	36	WA / MP	-	9.8	1.05
SETAQUA 8556	-	50	WA	-	8.5	1.05

Product name	OH (%) (on solids) ↓	HEW (as supplied)	NV (%)	Solvents	Viscosity (23°C, Pa.s)	AV as supplied (mg KOH/g)
ThermoSetting Acrylic, Water Thinnable						
SETALUX® 6100 GR-68	2.0	1250	68	BDG	8.8	12

Water borne acrylic copolymer resins

Product name	MFFT (approx.) (°C) ↓	NV (%)	Solvents	Viscosity (25°C, Pa.s)	pH at 10% solids	Neutralization
Water borne Acrylic Emulsion						
UCECRYL® B 1181	2	48	WA	600	7.5	NH3
UCECRYL BMR 47	2	55	WA	250	8.5	NH3
UCECRYL B 976	3	48	WA	265	9.0	NH3
UCECRYL B 983	17	48	WA	650	8.5	NH3
UCECRYL B 3014	30	47	WA	max. 500	8.2	NaOH

Technical features

Amine functional acrylic emulsion (AEW = 655 g/eq as supplied). Use in combination with SETAQUA® 8556. Low co-solvent content, fast drying and excellent water resistance.

Epoxy functional acrylic dispersion (EEW = 621 g/eq as supplied). APEO and co-solvent free. Use in combination with SETAQUA 8455. Gives fast drying and good water resistance. for use on soft and hard woods with excellent blocking of tannin and tree resin.

Color (max. value)	Density (kg/dm ³)	Technical features
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250 APHA	1.05	Good pigment wetting, easy application, good gloss, good chemical resistance and excellent durability.
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Technical features

Low MFFT straight acrylic emulsion copolymer. Suitable for fresh concrete, very low water uptake with very good resistance to efflorescence. For use in clear coats with excellent water resistance.

Low MFFT straight acrylic emulsion copolymer with excellent adhesion to metals, recommended for use in high solids primers with low water uptake and for metal basecoats.

Low MFFT straight acrylic emulsion copolymer for clear and pigmented coatings with excellent water resistance.

Medium MFFT straight acrylic emulsion copolymer with very low water uptake and good resistance to efflorescence. For clear and pigmented coatings with excellent water resistance. Contains APEO

Medium MFFT straight acrylic emulsion copolymer. Clear and pigmented coatings with excellent water resistance.

Water borne alkyd and polyester resins

Product name	NV (%)	Solvents	Type of modification	Oil lenght %	Viscosity (23°C, Pa.s)	pH	Neutralization
Water borne Alkyd - Air Drying							
RESYDROL® VAF 6111w/60WA	60	WA	Fatty acid	40	9.5	7.8	Partially neutralized
RESYDROL AY 241w/40WA	40	WA / BG	Acrylic	24	3.5	8.8	NH3
RESYDROL AY 334w/40WA	40	WA / BG	Acrylic	35	12	9.2	TEA / DMEA
RESYDROL AY 430w/42WA	42	WA / BG	Acrylic	44	8.5	8.2	NH3
RESYDROL AY 466w/38WA	38	WA / BG	Acrylic	46	8.0	8.2	NH3
RESYDROL AY 586w/45WA *	45	WA	Acrylic	58	7.5	8.0	NH3
RESYDROL VAY 6096w/39WA	39	WA / BG	Acrylic	32	5.0	7.5	NH3
RESYDROL AY 6150w/45WA	45	WA / BP	Acrylic	35	1.2	8.6	NH3
RESYDROL VAY 6278w/45WA	45	WA	Acrylic	15	0.28	8.2	NH3
RESYDROL AY 6705w/44WA	44	WA	Acrylic	35	0.55	8.5	NH3
RESYDROL AZ 6191w/42WA	42	WA	Acrylic/urethane	44	1.4	8.6	TEA
RESYDROL AZ 6710w/41WA	41	WA	Acrylic/urethane	29	0.75	8.5	NH3
RESYDROL AZ 6711w/40WA	40	WA	Acrylic/urethane	40	4.0	8.5	NH3
SETAQUA® 6006	52	WA	Urethane	24	0.36	7.4	TEA
SETAQUA 6407	26	WA / BG	-	-	4.4	8.2	DMEA
SETAQUA B B 130	30	WA	Non-saponifiable polymer	-	2.3	8.8	NH3 / TEA
SETAQUA B B 2624	30	WA	Non-saponifiable polymer	-	2.3	8.8	NH3 / TEA
Water Borne Alkyd - Baking							
RESYDROL AF 502w/35WA	35	WA	Fatty acid	52	1.0	8.2	DMEA
RESYDROL VAX 5533w/40LG	40	WA / MPP / MPA	Epoxy and urethane	3	0.40	8.5	DMEA
Water Borne Polyester - Baking							
RESYDROL AX 906w/35WA	35	WA / MPP	Epoxy	-	6.5	8.0	DMEA
RESYDROL VAX 5538w/50WA	50	WA	Epoxy	-	4.5	7.2	DMEA
RESYDROL AY 5537w/35WA	35	WA / DPM	Acrylic	-	2.3	8.4	DMEA
RESYDROL AZ 6608w/43WA	43	WA / NMP / MP	Urethane	-	0.80	8.0	DMEA
RESYDROL AN 6626w/65WABG	65	WA / BG	-	-	5.5	8.1	DMEA

Density (kg/dm ³)	Technical features
1.07	A high solid, low yellowing, blending resin to improve open time, provides adhesion to chalky substrates and can help achieve higher gloss while being free of amine and ammonia. Not shear stable.
1.02	Extremely rapid initial drying. Excellent through-hardening, high film hardness. Very good water resistance. Sole binder for primers or a partner for other RESYDROL® resins to improve drying behavior.
1.04	Rapid drying and good drying stability. High gloss. Excellent water and weather resistance. Good resistance to yellowing.
1.03	Very rapid drying, good brushability, high gloss and good weather resistance. For decorative paints on wood and metal.
1.03	Rapid initial and through-drying. High gloss. Excellent water and weather resistance. Good storage and drying stability.
1.02	Sole binder for water borne decorative paints, exterior wood stains and industrial finishes. Low particle size that shows good wood penetration, provides good durability.
1.04	Very quick drying, high film hardness, good gloss in decorative top coats. High water resistance and outdoor durability. Recommended as sole binder in fast drying industrial coating systems.
1.05	Designed for the production of air drying, waterborne one-component topcoats, multi-purpose primers and monolayers. Quick drying, good hardness development, high gloss and corrosion protection, good adhesion on various substrates and very good recoatability at any time.
1.03	Quick drying, low yellowing. Use as a sole binder for decorative primers and topcoats or as a blending resin to improve drying properties.
1.03	Exhibits very good durability and fast dry when used as a vertical or horizontal stain. Can be used alone or in combination with other w/b resins for decorative paints, exterior wood stains and industrial finishes.
1.05	Excellent drying and hardness development. Shear stable, high gloss, great flow and leveling, high color retention for indoor and outdoor applications.
1.02	Sole binder for (trim) paints, primers and wood-stains. Good penetration, good open time drying balance, good weathering resistance.
1.02	Sole binder for paints, primers and wood-stains. Also for combinations with long oil alkyd emulsions, like RESYDROL AY 586w, or waterborne, modified oils, like RESYDROL VAL 5547w, or acrylates, like UCECRYL® B 3022, for interior and exterior applications for woodstains, (trim) paints and primers.
1.09	Aromatic modification. Very fast drying, excellent stain blocking and wood penetration.
1.04	Good pigment wetting, good stabilisation of aluminium pigments, improves film forming and flow.
1.00	Good anti-corrosion properties, water resistance and adhesion to non-ferrous metals and various plastic surfaces.
1.00	Outstanding anti-corrosion properties, water resistance and adhesion to non-ferrous metals and various plastic surfaces. SETAQUA® B B 2624 is the oxime free version of SETAQUA B B 130
1.03	Excellent pigment wetting, excellent application properties for high bodied bake systems in one coat and decorative finishes.
1.04	modifier-resin to improve film hardness, gloss, adhesion and corrosion resistance of stoving primers and primer-surfacers. The resin is selfcrosslinking.
1.06	Outstanding anticorrosive properties, excellent pigment wetting, high reactivity, very good storage stability. Good balance of hardness and flexibility. For waterborne corrosion-resistant dipping and spray primers and high-grade finishes for industrial applications.
1.12	Modifier resin for waterborne primer-surfacers to improve adhesion (e.g. to PVC) and corrosion resistance.
1.06	Good weathering resistance. Bake enamels stand out because of their high film hardness balanced with extraordinary good flexibility, excellent water and solvent resistance. The adhesion to substrates like iron, aluminum, brass, copper and to galvanized surfaces is very good.
1.08	Extraordinary good stone chip resistance, excellent thermal yellowing stability (up to 200 °C), good gloss. Recommended for flexible bake enamels and as a modifier resin to improve stone chip resistance of waterborne basecoats and primer surfacers.
1.13	Waterborne stoving enamels providing excellent flexibility and stone chip resistance properties.

Water borne alkyd and polyester resins

Product name	NV (%)	Solvents	Type of modification	Oil lenght %	Viscosity (23°C, Pa.s)	pH	Neutralization
Water Borne Polyester - Baking							
RESYDROL® AZ 6627w/36WA	36	WA / MPP	Urethane	-	0.52	6.8	DMEA
RESYDROL AZ 541w/42WA	42	WA / TPG	Urethane	-	1.5	7.8	DMEA
SETAQUA® B E 270	70	WA / BDG	-	-	12	8.0	DMEA
SETAQUA B E 356	56	WA / DEGBE	-	-	9.5	8.6	DMEA
Water Reducible Alkyd - Air Drying							
RESYDROL VAL 5547w	98	-	-	62	1.2	6.5	not neutralized
SETAL® 6306 SS-60	60	BG	-	-	2.0	-	not neutralized
Water Reducible Alkyd - Baking							
RESYDROL AM 420w/66BPWA	66	WA / BP / n-But	Bisphenol resol carboxylic acid	37	2.0	7.5	TEA
RESYDROL VAF 5540w/70MP	70	MP	-	11	0.42	-	Not neutralized
RESYDROL AX 246w/70BG	70	BG	Epoxy	22	16	-	DMEA
RESYDROL AX 247w/70BGMP	70	BG / MP	Epoxy	22	13	-	Not neutralized
RESYDROL AX 250w/75EP	75	EP / BG	Epoxy	20	0.50 (50MP)	-	DMEA
RESYDROL VAX 5227w/55LG	55	WA / n-But / MP/ BG / MPP	Epoxy	-	0.30	8.0	DMEA
Water Reducible Polyester - Baking							
DUROFTAL® PE 6607/60BGMP	60	BG / MP	None	-	1.2	-	Not neutralized
RESYDROL AN 6481w/70BBP	70	n-But / BP	Polyester	-	1.5	-	Not neutralized
RESYDROL AN 6617w/65MPP	65	MPP	Polyester	-	5.5	7.5	DMEA
RESYDROL AN 6618w/70BG	70	BG	None	-	8.5	7.8	DMEA

Density (kg/dm ³)	Technical features
1.06	Low bake (e. g. 20 min / 130 °C) waterborne stoving enamels providing properties like: very high film hardness in conjunction with high film elasticity, very good gloss, excellent chemical resistance and adhesion to steel or CED primers, very good stone chipping resistance.
1.07	Primer surfacers have excellent processing properties and resistance against stone chipping, even at higher layer thickness of top coat.
1.10	Good hardness, flexibility and adhesion. High stone chip resistance.
1.00	Extremely good resistance to hydrolysis.
1.02	Water dilutable without the need for neutralization agents. Very high penetration into the wood and is compatible with alkyd dispersions. Great for wiping stains.
1.04	Watersoluble after neutralisation, good pigment wetting, good stabilisation of aluminium pigments, improves film forming and flow. Suitable for use in two-component polyisocyanate systems (HEW=1050 as supplied).
1.07	Sole binder for stoving primers and finishes. Dipping and flow coating paints. Excellent adhesion resistance, superior flexibility and corrosion resistance, excellent hardness.
1.10	Good pigment wetting, Excellent mechanical properties, Very good storage stability. Additional resin for water dilutable primer surfacers to improve leveling.
1.08	Excellent pigment wetting. Outstanding anticorrosive properties. High reactivity, very good storage stability. Used for waterborne corrosion resistant dipping and spray primers for low bake temperatures. High-grade waterborne finishes for industrial applications.
1.08	Excellent pigment wetting. Outstanding anticorrosive properties. High reactivity, very good storage stability. Used for waterborne corrosion resistant dipping and spray primers for low bake temperatures. High-grade waterborne single-coat finishes for industrial applications.
1.09	Excellent pigment wetting, high corrosion protection, very good reactivity with melamine resins. As combination partner for stoving systems to increase reactivity and improve corrosion protection.
1.05	Very good corrosion resistance. For the formulation of automotive primer surfacers. Improved reactivity, pigment wetting and corrosion protection as well as high build film thickness.
1.10	Replacement of epoxy resins for interior and exterior coatings for metal packaging goods (can coating). When combined with phenolic resins or amino resins, these lacquers neither contain BADGE, nor Bisphenol A.
0.99	Co-binder in combination with melamine resins and/or polyurethane dispersions for formulation of water dilutable industrial paints, e. g. base coats.
1.09	Crosslinked with either melamines or Isocyanates provides highly elastic coatings, especially recommended for soft-feel coatings.
1.07	Excellent adhesion on different metals, for outstanding pigment wetting and gloss, for excellent mechanical properties and good yellowing resistance even at high curing temperatures.

Water borne epoxy resins and hardeners

Product name	NV (%)	Solvents	Viscosity (23°C, Pa.s)	AEW (as supplied)	EEW (as supplied)	pH	Density (kg/dm ³)
Amine Hardener for Epoxy Resin and Dispersion							
BECKOCURE® EH 2100w/44WA	44	WA	1.0	570	-	9.5	1.07
BECKOCURE EH 2260w/41WA	41	WA	1.0	1000	-	9.0	1.06
BECKOPOX™ EH 613w/80WA	80	WA	27	145	-	-	1.10
BECKOPOX EH 623w/80WA	80	WA	16	200	-	-	1.10
BECKOPOX VEH 2106w/80WA	80	WA	18	142	-	-	1.08
BECKOPOX VEH 2188w/55WA	55	WA / PE	10	380	-	-	1.08
BECKOPOX EH 2189w/50WA	55	WA	0.045	138	-	-	1.09
BECKOPOX VEH 2849w/80WA	80	WA	22	134	-	-	1.09
Water borne One-component Epoxy Resin							
BECKOPOX EM 2120w/45WA	45	WA	0.50	-	-	-	1.07
Water borne Epoxy Resin and Dispersion							
BECKOPOX EP 147w	100	-	1.1	-	194	-	1.17
BECKOPOX EP 384w/53WAMP	53	WA / MP	0.58	-	980	-	1.10
BECKOPOX EP 385w/56WA	56	WA / i-Pro	0.78	-	890	-	1.09
BECKOPOX EP 386w/52WA	52	WA / PE	0.90	-	1000	-	1.08
BECKOPOX EP 387w/52WA	55	WA / MP	0.90	-	1000	-	1.08
BECKOPOX EP 2307w/45WAMP	45	WA / MP	1.0	-	4400	-	1.08
BECKOPOX VEP 2381w/55WA	55	WA / PE	7.8	-	905	-	1.08
BECKOPOX EP 2384w/57WA	57	WA	0.80	-	750	-	1.09
BECKOPOX EP 2392w/70MP	70	MP	3.0	-	715	-	1.08
Water borne Epoxy Ester							
DUROXYN® EF 2107w/45WA	45	WA	0.10	-	-	5.0	1.07
DUROXYN VEF 2406w/45WA	45	WA	0.50	-	-	5.0	1.07

Technical features

	To be used with Liquid Epoxies and /or Epoxy Dispersions (perfect compatibility). Fast drying time / return to service.
	Easy Cure System - low viscosity hardener, very fast drying, high sag resistance. Combine with BECKOPOX™ EP 2384w or BECKOPOX EP 387w for easy handling and application with fast return to service for metal applications.
	Aliphatic polyamine adduct, fast drying, highly reactive hardener. Good anti-corrosion performance and high chemical resistance. Can be used alone or in combination with other hardeners to modify drying and pot life properties. For both metallic and mineral substrates.
	Aliphatic polyamine adduct with medium reactivity with a good balance of drying time and long pot life. Workhorse hardener for mineral substrates.
	Aliphatic polyamine adduct, visual end of pot life with increase of viscosity resp. gelation. Used as a combination partner with other hardeners to allow potlife indication. For both metallic and mineral substrates.
	Hydrophobic aliphatic polyamine adduct, free of volatile amines, low reactivity and long pot life. Allows for excellent corrosion performance without the need for active pigments.
	Highly reactive polyamine adduct hardener for waterbased two-component epoxy coatings on metallic substrates. Very fast drying and fast throughcuring coatings, excellent anticorrosion properties.
	Aliphatic polyamine adduct, fast drying, highly reactive hardener. Used for anticorrosion primers with excellent water and corrosion resistance. Good for thick film applications and zinc rich primers.
	Cationic epoxy-amine adduct dispersion for metallic coatings, excellent corrosion resistance, fast hardness development.
	Water emulsifiable Bis-A/Bis-F, non-crystallizing, liquid epoxy. High abrasion resistance, good chemical resistance and corrosion protection. Combine with solid epoxy dispersions to improve penetration into concrete and chemical resistance. Used for coatings on metallic and mineral substrates, adhesives and water-washable joint compounds for tile.
	Shear stable type 1 epoxy dispersion, fast drying, good hardness, for both metal and concrete applications.
	Flexibilized type 1 epoxy dispersion, e. g. for water reducible fast drying anticorrosion primers and coatings for plastics.
	Flexibilized type 1 epoxy dispersion with good shear stability. Excellent corrosion resistance. Best product to use when flexibility and adhesion to difficult substrates are required. Designed for metallic substrates. Can also be used on concrete in combination with liquid epoxy resin.
	Flexibilized epoxy dispersion with excellent corrosion resistance. Developed to optimize formulation cost and performance. Designed for metallic substrates. Can also be used on concrete in combination with liquid epoxy resin.
	High-molecular epoxy resin (Type 7) dispersion. In combination with suitable crosslinkers, it is possible to formulate stoving enamels with excellent chemical and heat sterilisation resistance. Provides good adhesion and corrosion performance.
	Solid type 1 epoxy resin as aqueous dispersion. Fast drying coating systems for mineral and metallic substrates.
	Solvent free, shear stable type 1 epoxy dispersion. Fast drying and hardness development. For both mineral and metallic substrates.
	Flexibilized type 1 water-emulsifiable epoxy dispersion. Designed for zinc-rich anti-corrosion primers.
	Cationic epoxy ester emulsion, fatty acid modified, neutralized with acetic acid. Fast drying, more flexible than DUROXYN® VEF 2406. Excellent stain blocking on wood.
	Cationic epoxy ester emulsion, neutralized with acetic acid. Fast drying, high film hardness. Excellent stain blocking on wood.

Cathodic electro deposition resins

Product name	NV (%)	Solvents	Viscosity (23°C, Pa.s)	Density (kg/dm ³)
Acrylic resin for Industrial CED				
VIACRYL® VSC 6250w/65MP	65	MP	26	1.04
VIACRYL VSC 6292w/38WA	38	WA / MP	0.25	1.05
Epoxy resin for Industrial CED				
RESYDROL® EZ 6635w/35WA	35	WA / Tex	0.50	1.04
RESYDROL EZ 6635wcat/35WA	35	WA / Tex	0.50	1.05
RESYDROL EZ 6645wcat/35WA	35	WA / Tex	0.50	1.06
RESYDROL EM 6642w/55BG	55	BG	7.0	1.00

Technical features

External crosslinking acrylate binder for pigmented primer or clear paint for the production of transparent protective coatings on ferrous and nonferrous metals. Suggested for decorative and general industrial applications.

Self-crosslinking, thermoset acrylate binder for the production of white or bright cathodic electrodeposition coatings. Recommended for protective coatings on metal.

Self-crosslinking, thermoset CED binder for industrial applications. Film thickness can be adjusted between 20 and 45 μm .

Self-crosslinking, internal catalysed thermoset CED binder for industrial applications. Film thickness can be adjusted at 20 and 30 μm .

Yellowing stable, self-crosslinking, internal catalysed thermoset CED binder for industrial applications. Film thickness can be adjusted between 5 and 15 μm .

Grinding resin for stable, highly pigmented pastes used in two-component CED paints.

Water borne polyurethane resins

Product name	NV (%)	Co-solvents	Type	Viscosity (23°C, mPa.s)	pH at 10%	Neutralization
Water Borne Polyurethane Dispersion						
DAOTAN® VTW 1233/36WANMP	36	WA / NMP	Aliphatic polyester	220	7.8	TEA
DAOTAN VTW 1262/35WA	35	WA	Aliphatic polycarbonate/acrylic	30	8.0	DMEA
DAOTAN VTW 1265/36WA	36	WA	Aliphatic polyester	50	7.5	DMEA
DAOTAN VTW 1686/40WA	40	WA / BG / DPGDME	Polyester modified acrylic dispersion	60	6.4	AMP 90
DAOTAN TW 6425/40WA	40	WA	Aliphatic/aromatic polyester	600	7.7	DMEA
DAOTAN TW 6429/40WA	40	WA / BG / DPGDME	Aromatic polyester	1200	7.6	DMEA
DAOTAN STW 6434/40WA	40	WA	Aliphatic polyester	505	7.5	DMEA
DAOTAN TW 6438/40WANEP	40	WA / NEP	Aliphatic/aromatic polyester	675	7.6	TEA
DAOTAN TW 6439/30WA	30	WA / MP / DPGDME	Aliphatic polyester	max. 80	8.0	TEA
DAOTAN TW 6450/30WA	30	WA / DPGDME / MP	Aliphatic polycarbonate	max. 50	8.2	DMEA
DAOTAN TW 6451/32WA	32	WA / DPGDME / MP	Aliphatic/aromatic polyester	max. 100	8.4	DMEA
DAOTAN VTW 6460/35WA	35	WA	Aliphatic polyester/acrylic	210	7.8	DMEA
DAOTAN VTW 6462/36WA	36	WA	Aliphatic polyester/acrylic	130	7.9	DMEA
DAOTAN VTW 6463/36WA	36	WA	Aliphatic polyester/acrylic	130	7.9	DMEA
DAOTAN TW 6464/36WA	36	WA	Aliphatic polyester/acrylic	130	7.9	DMEA
DAOTAN TW 6466/36WA	36	WA	Aliphatic polyester/acrylic	120	7.9	DMEA
DAOTAN TW 6473/37WA	37	WA	Aliphatic polyester/acrylic	425	8.0	DMEA
DAOTAN TW 6474/37WA	37	WA / DPGDME	Aliphatic polyester/acrylic	max. 40	8.4	TEA
DAOTAN TW 6490/35WA	35	WA	Aliphatic polyester	75	9.2	TEA
DAOTAN TW 6493/35WA	35	WA	Aliphatic polyester	75	9.8	TEA
DAOTAN TW 6495/35WA	35	WA	Aliphatic polyester	75	8.6	DMEA
DAOTAN TW 7000/40WA	40	WA	Aliphatic polycarbonate	550	8.2	DMEA
DAOTAN TW 7010/36WA	36	WA	Aliphatic polycarbonate	105	8.0	DMEA

Elongation %	HEW (as supplied)	Density (kg/dm ³)	Technical features
800	-	1.05	Excellent flexibility. Suited for the formulation of aqueous wood coatings (furniture and parquet).
245	4380	1.04	Shear stable with good pigment wetting. Good flexibility. Designed for ambient and force dry industrial coating systems and automotive basecoats.
280	5840	1.05	Self-crosslinking, forms clear crack-free films without additional coalescing aids. High clarity. Suitable for wood coatings for furniture and flooring. Good compatibility with acrylic resins used to accelerate drying speed.
-	-	1.05	Sole binder or in combination with melamine resins and/or polyurethane dispersions for the production of waterdilutable industrial paints, e. g. base coats.
-	2550	1.08	Shear stable. Good flexibility when cured with isocyanates as well as melamine resins, with good adhesion to polyamide, polycarbonate, ABS and pretreated PP/EPDM.
-	3260	1.08	Highly flexible coating systems, especially primers for plastics. good adhesion to rigid PVC, polyamide, ABS, untreated PP/EPDM.
-	-	-	Due to high toughness and excellent elasticity DAOTAN® STW 6434/40WA is recommended as modifier resin for waterborne OEM primer-surfacers to improve stone chipping resistance.
-	-	1.08	Self-crosslinking. Quick drying plastic primers. Overcoatability and sandability of these primers is excellent.
-	-	1.02	Clear, crack-free films without further addition of organic solvents. These films also exhibit excellent elasticity and mechanical properties.
-	-	1.04	High molecular weight, forms a clear crack-free film at ambient temperatures. Excellent elasticity and mechanical properties as well as very good adhesion to different plastic substrates like ABS, PC, PA, PVC, PC/PBT. Used for plastic primers and auto OEM basecoats with outstanding stone-chip resistance.
-	-	1.05	Excellent elasticity and mechanical properties as well as very good adhesion to different plastic substrates like e.g. ABS, PC, PA, PVC and PC/PBT.
300	4840	1.06	Forms clear, defect free films at ambient conditions without the addition of paint additives. Shear stable, good pigment wetting and compatible with inert pigments. Recommended for ambient and force dry industrial coatings, especially automotive basecoats.
140	3900	1.06	Self-crosslinking, good shear stability, pigment wetting, abrasion resistance and resistance to household detergents. Good adhesion to ABS, PA, rigid and flexible PVC and PMMA. Especially suited for primers and basecoats.
-	3900	1.05	Shear stable with good wetting properties, quick curing to give clear crack-free films. Good abrasion resistance and resistance to household chemicals. Good adhesion to ABS, PA, rigid and flexible PVC and PMMA. Especially suited for primers and basecoats.
140	3900	1.06	Shear stable, self crosslinking, providing quick drying and good wetting properties. Good chemical and abrasion resistance, with good adhesion to ABS, PC, treated PP and PVC. Can be used for plastic primer and basecoat. In addition, this resin exhibits extraordinary bright metallic effects.
-	-	1.05	High quality, waterborne metallic Basecoat formulations for automotive OEM application.
-	-	1.04	Self-crosslinking acrylic modified polyurethane dispersion. Shear stable with good pigment compatibility. Good adhesion to PC, PMMA, ABS. Used preferably for anti-fogging coatings.
-	-	1.05	Hard grade polyurethane dispersion, particularly suitable as combination partner for alkyd and acrylic emulsions, significantly improving the drying time and early hardness development.
400	-	1.04	Very good adhesion to plastic substrates like ABS, PVC, PC, PMMA. High elasticity and toughness, excellent mechanical properties (especially stone chip resistance), low yellowing at high temperature. Recommended for primer and basecoat applications.
30	-	1.04	Glossy and flat furniture and parquet laquers. High film hardness, high elasticity and toughness, quick physical drying.
-	-	1.04	Very good adhesion to plastic substrates like e.g. ABS, PVC, PC, PMMA. High elasticity and toughness, excellent mechanical properties (especially stone chip resistance), little yellowing at elevated temperature.
-	825	1.05	Very high hardness along with flexibility. Very good adhesion to plastics substrates commonly used in automotive applications like ABS, PC, PP (flame treated), PVC and PPSU. Extremely high water and chemical resistance including sunscreen and bug spray.
-	1485	1.06	Clear, crack-free, water-resistant and highly flexible films. very good adhesion to plastics substrates like ABS, PC, PP (flame treated), PV and PPSU.

Additives

Additive name	Dosage	Active content (%)	SB, WB, Universal	Additive type
Pigment wetting				
ADDITOL® XL 250	0.5 - 5.0% pigment	55	Universal	Low MW ainionic pigment wetting
ADDITOL XL 255 N	0.2 - 2.0% inorg pigment 1.0 - 5.0% org pigment	58	Universal	Electro neutral modified fatty acid polymer
ADDITOL XL 6514/80	0.2 - 1.0% inorg pigment 1.0 - 5.0% org pigment	80	SB	salt of an basic aminoamide with an acidic polyester
ADDITOL XL 6577	2.5 - 10% inorg pigment 15 - 60% matting agent	50	SB	Anionic wetting
ADDITOL VXW 6374	3.0 - 10% inorg pigment 10 - 40% org pigment	50	WB	Ionic and nonionic wetting
ADDITOL VXL 4992	0.5 - 2.0% pigment / extender	50	SB	Modified polyester wetting additive
Dispersing additives				
ADDITOL VXL 6212	3.0 - 10% inorg pigment 10 - 50% org pigment	30	SB	High MW, urethane mod polymer, cationic
ADDITOL VXL 6237 N	3.0 - 10% inorg pigment 10 - 50% org pigment	30	SB	High MW polymer, cationic
ADDITOL VXW 6200	0.5 - 4.0 % inorg pigment 4.0 - 15 % org pigment	40	WB	High MW polymer, anionic
ADDITOL VXW 6208	3.0 - 10% inorg pigment 15 - 50% org pigment	50	WB	High MW polymer, non ionic
ADDITOL VXW 6208/60	3.0 - 10% inorg pigment 15 - 50% org pigment	60	Universal	High MW polymer, non ionic
ADDITOL VXW 6394	10 - 30% inorg pigment 30 - 75% org pigment	40	WB	High MW polymer, non ionic
ADDITOL XW 330	0.1 - 0.4% inorg pigment / extender	30	WB	Polyacrylic type dispersant, ammonium salt
ADDITOL XL 6521	3.0 - 10% inorg pigment 15 - 60% org pigment	60	SB	High MW polymer, cationic
ADDITOL XW 6532	15 - 60% org pigment 30- 100% Carbon black	40	Universal	polymer, ionic
Grinding media				
ADDITOL XL 6557	Grinding medium	70	SB	Air drying, OH-functional, physical drying polymer
ADDITOL XW 6528	Grinding medium	35	WB	Modified acylic polymer, crosslink able
ADDITOL XW 6535	Grinding medium	45	Universal	High MW, autoemulsifying polymer
ADDITOL XW 6565	Grinding medium	38	Universal	High MW, autoemulsifying polymer
ADDITOL XW 6575	Grinding medium	34	WB	Modified acylic polymer, crosslink able
ADDITOL XW 6591	Grinding medium	35	WB	Modified polyester-acrylate polymer, crosslink able

Automotive	Industry	Architecture	Technical features
•	•	•	Very strong pigment affinity especially to inorganic and metallic pigments. Besides reduced dispersing time it improves gloss and color strength as well as material flow.
•	•	•	Pigment wetting additive to improve gloss and color strength; for all types of pigment recommended. It may be used for direct grinding or pigment paste process.
	•		Wetting and anti-settling additive to improve gloss and pigment stabilisation and flow. Especially recommended in low VOC and high solid systems.
	•		Excellent dispersant for SB and HS / UHS paints and inorganic pigment / filler preparations. Enables highest pigment loading with low viscosity. Supports low VOC formulations.
	•	•	Improves gloss and color strength of difficult wettable pigments. It allows an improved material flow.
•			Multi purpose additive for unsaturated polyester based putties. Strong wetting power for inorganic pigments and fillers. Reduces dispersing time, improves degassing, flow and rheology.
•	•		High molecular weight dispersing additive for difficult wettable pigments. Recommended for direct grinding processes. Improved compatibility in acrylic systems.
•	•		High efficient, high molecular weight dispersing additive for all types of pigment. Recommended for direct grinding as well as for binder free pigment concentrates.
		•	Powerful dispersing additive especially for inorganic pigments. It reduces dispersing time and offers very good pigment stabilization. Especially recommended for glossy paints.
	•	•	High molecular weight dispersing additive for all types of pigment. Due to its non ionic polymer structure it is highly recommended in formulations containing sensitive resins. It is recommended for both, direct grinding and pigment concentrate processes.
	•	•	High molecular weight dispersing additive for all types of pigment. Due to its non ionic polymer structure it is highly recommended in formulations containing sensitive resins. It is recommended for both, direct grinding and pigment concentrate processes. Highly recommended in 2K Epoxy formulations.
	•		Very efficient, high molecular weight dispersing additive for all types of pigment. Due to its non ionic polymer structure it is highly recommended in formulations containing sensitive resins. Further it can be used for the production of highly loaded, binder free pigment concentrates.
		•	Low molecular weight wetting and dispersing additive especially for inorganic pigments and extenders. Strongly recommended for titanium dioxide white.
•	•		Powerful, high molecular weight dispersing additives for very difficult wettable pigments. Especially recommended for all carbon black pigments in order to achieve perfect color properties and extreme high gloss.
	•	•	Highly efficient dispersant for organic pigments and carbon black. It can improve color acceptance of colorants in solvent borne paints. It is recommended for the production of waterborne pigment slurries.
		•	Pigment grinding medium for solventborne (SB) industrial pigment pastes. High pigment concentration. Supports air-drying, physical drying and isocyanate and amino crosslinking systems. Compatible in broadest range of SB resins.
•	•		Co-crosslinkable grinding medium with high pigment loading capacity. Due to its special composition and reactivity it can improve chemical resistance and corrosion protection. Broad compatibility.
	•	•	Universal grinding medium for the production of in house and POS tinting systems suitable for architectural and light industrial colorants. Highly recommended for exterior application.
	•	•	Latest generation of high molecular, universal pigment grinding medium for Architectural colorant production. High pigment loading and low mill base viscosities. Designed for POS and in house tinting. Ultra low VOC and Eco labels 2009/543/EC and 2009/544/EC.
•	•		Co-crosslinkable grinding medium with high pigment loading capacity. Improves chemical resistances. Suitable for bright colors. Broad compatibility.
•	•		Co-crosslinkable grinding medium with high pigment loading capacity. Due to its special composition and reactivity it can improve chemical resistance and corrosion protection. Broad compatibility. Improved life time stability.

Additives

Additive name	Dosage	Active content (%)	SB, WB, Universal	Additive type
Pigment wetting and anti settling				
ADDITOL® XL 270	0.1 - 2.0% pigment	55	Universal	Electro neutral fatty acid component
Anti floating				
ADDITOL XL 203	0.5 - 5.0% pigment	40	Universal	Anti floating, cationic
ADDITOL XL 204	0.5 - 6.0% pigment	55	Universal	Anti floating, anionic
Substrate wetting and anti crater additives				
ADDITOL VXW 6214	0.2 - 1.0% total	57	WB	Fluor modified polymer
ADDITOL VXW 6396	0.1 - 1.0% total	55	WB	Highly fluor modified low MW polymer
ADDITOL VXW 6503 N	0.1 - 1.0% total	50	Universal	Special silicone tenside
ADDITOL XW 390	0.1 - 1.0% total	50	WB	Fluor modified polymer
ADDITOL XW 6580	0.05 - 0.5% total	100	Universal	Special silicone tenside
Flow and leveling additives silicone free				
ADDITOL XL 480	0.1 - 0.5% total	70	SB	Modified low MW acrylic polymer, FDA
ADDITOL XL 490	0.1 - 2.0% binder	100	SB	Modified acrylic polymer
ADDITOL XW 395	0.2 - 1.0% binder	58	WB	Acrylic polymer, FDA
MODAFLOW® 2100	0.1 - 1.0% total	100	SB	Medium MW acrylic polymer, FDA
MODAFLOW 9200	0.1 - 0.5% total	100	SB	Low MW acrylic polymer, crosslinkable
MODAFLOW AQ 3025	1.0 - 2.0% total	25	WB	Medium MW acrylic polymer, FDA
MODAFLOW EPSILON	0.1 - 2.0% total	80	SB	High MW acrylic polymer
MODAFLOW RESIN	0.1 - 1.0% total	100	SB	High MW acrylic polymer, FDA
MULTIFLOW® RESIN	0.5 - 3.0% binder	50	SB	High MW acrylic polymer
Silicone leveling additives				
ADDITOL VXL 4930	0.05 - 0.3% total	40	Universal	Polyether modified silicone
ADDITOL XL 121	0.1 - 0.5% total	14	SB	Modified silicon
ADDITOL XL 123 N	0.05 - 0.5%	50	Universal	Modified silicone
Hybrid polymer leveling				
MODAFLOW Lambda	0.1 - 0.5%	100	SB	OH-functional acrylic-silicone hybrid polymer

	Automotive	Industry	Architecture	Technical features
	●	●	●	Multi purpose additive to improve rheology and prevent from settling and floating. Also recommended in high gloss systems.
	●	●	●	Prevents the floating of titanium dioxide in conjunction with organic or inorganic coloured pigments.
	●	●	●	Improves significantly floating of inorganic and organic pigments. Prevents Bénard cell formation. Reduces dispersing time.
	●	●	●	Silicone free, substrate wetting and leveling additive for difficult wettable substrates or not perfectly cleaned surfaces. It is not foam stabilizing and does not harm intercoat adhesion.
	●	●	●	Silicone free, substrate wetting and leveling additive for difficult wettable substrates or not perfect cleaned surfaces. Very low molecular weight allows fast mode of action. It is not foam stabilizing and does not harm intercoat adhesion.
		●	●	Special silicone tenside with very strong influence on surface tension and excellent substrate wetting performance. It is not foam stabilizing and does not show problems in recoatability.
	●	●	●	Silicone free, substrate wetting and leveling additive with improvement of intercoat adhesion. It is crosslinkable and does not stabilize foam.
	●	●	●	Special silicone tenside with very strong influence on surface tension and excellent substrate wetting performance. It is not foam stabilizing and does not show problems in recoatability.
	●	●		Low molecular weight leveling additive for improved surface and anti crater effect. Very good compatibility in all major solventborne systems. Especially recommended for car refinish and coil coating applications.
	●	●		Medium molecular weight acrylic leveling additive to improve flow and surface quality. Effective against film defects.
	●	●		Multi purpose leveling additive to improve surface conditions and prevent pin holes and crater formation. Also efficient against oil contaminations.
	●	●		Medium molecular weight, highly efficient flow modifier. Good compatibility and easy incorporation, fast mode of action. Recommended also in clear coat applications.
	●	●		Low molecular weight, high efficient and crosslinkable flow modifier. It reduces film defects and strongly increases gloss levels. Recommended for all solventborne high end applications.
	●	●	●	Medium molecular weight flow and leveling additive. It supports pigment wetting and allows a fast degassing process.
	●	●		Highly efficient flow promoter with excellent degassing properties. Recommended for all solventborne systems, especially for pigmented top coats. Easy handling and incorporation.
	●	●		Highly efficient flow promoter with excellent degassing properties. Recommended for all solventborne and high solid systems, especially for pigmented top coats.
	●	●		Highly efficient flow promoter with excellent degassing properties. Recommended for all solventborne systems, especially for pigmented top coats.
		●	●	Universal, silicone leveling additive with very good compatibility. It is very well balanced in order to improve spray mist absorption, orange peel, cratering and leveling. Highly efficient and not foam stabilizing.
		●	●	Silicone leveling additive that strongly increases slip and scratch resistance. Further it improves material flow.
		●	●	Silicone leveling additive to improve slip and scratch resistance. It has degassing properties and is thermostable up to 400°C.
	●	●		Highly efficient, crosslinkable flow promoter for improved surface characteristics such as gloss, DOI, brilliancy and anti orange peel effect (appearance). Combined efficiency of acrylic flow promoter and silicone leveling additive.

Additives

Additive name	Dosage	Active content (%)	SB, WB, Universal	Additive type
Defoamer (silicone containing)				
ADDITOL® VXL 4951 N	0.05 - 1.0% total	20	SB	Fluor modified silicone
ADDITOL VXW 6210 N	0.05 - 0.5% total	100	WB	Hydro carbons, modified silicone
ADDITOL XW 372 N	0.1 - 0.5% total	100	WB	High-efficiency defoamer
ADDITOL XW 6569	0.05 - 0.5% total	20	WB	Emulsifier free silicone emulsion, hydrophobic particles
Defoamer (silicone free)				
ADDITOL VXW 4973	0.1 - 0.6% total	100	WB	Mineral oil, waxes
ADDITOL VXW 6211	0.05 - 0.5% total	100	WB	Mineral oil, waxes
ADDITOL VXW 6235	0.2 - 1.0% total	100	WB	Foam retardant
ADDITOL VXW 6386	0.5 - 1.5% total	100	WB	Hydro carbons, waxes
ADDITOL VXW 6393	0.1 - 0.5% total	100	WB	Special mineral oil, waxes
ADDITOL XW 376	0.05 - 0.5% total	50	WB	Mineral oil, wax emulsion
ADDITOL XW 6544	0.05 - 0.5% total	100	WB	Polymer defoamer, VOC free
Air release additives (silicone free)				
ADDITOL VXW 4926	2.0 - 15% binder	100	WB	Special fatty acid component
ADDITOL VXW 5907	2.0 - 3.0% binder	100	WB	Surface active degassing polymers
ADDITOL XL 6507	0.1 - 1.5% total	10	SB	Degassing polymers, silicone free
ADDITOL XL 6531	0.1 - 0.5% total	40	SB	Polymer defoamer / deaerator
Rheology additives				
ADDITOL VXW 4934	1.0 - 10% binder	35	WB	wax dispersion
ADDITOL VXW 6360	0.1 - 0.3% total	30	WB	Polyurethane thickener
ADDITOL VXW 6387	0.1 - 5.0% pigment	60	WB	Special fatty acid component
ADDITOL VXW 6388	0.1 - 3.0% total	35	WB	Polyurethane thickener
Catalysts and curing agents				
CYCAT® VXX 6364	1.0 - 7.0% melamin resin	50	Universal	Ionic blocked pTSA catalyst
CYCAT VXX 6395	0.4 - 8.0% binder	25	Universal	Ionic blocked pTSA catalyst
ADDITOL VXW 6385		25	WB	Urethane adduct
Driers for air drying systems				
ADDITOL VXW 4940 N	2.0 - 3.0% solid binder		WB	Co, Ba, Zr emulsion, NPE-free
ADDITOL VXW 6206	1.0 - 3.0% solid binder		Universal	Co, Li, Zr combination drier, NPE-free
ADDITOL DRY CF100	0.3 - 1.3% solid binder		Universal	Cobalt free drier
ADDITOL DRY CF200	0.75 - 1.35% solid binder		Universal	Li, Zr combination drier

Automotive	Industry	Architecture	Technical features
		●	Very efficient defoamer for solventborne paints and lacquers. Strong anti blistering effect during processing and application.
●	●	●	Heavy duty defoamer recommended for preparation of pigment concentrates and strong foaming systems.
		●	Defoamer with excellent long term stability, enhances flow and leveling.
		●	Highly efficient defoamer for transparent and high gloss systems. Suitable for high and low PVC formulations. No interference with associative thickeners – no impact on rheology profile.
●	●	●	Highly efficient defoamer with good compatibility and easy incorporation. Broad field of application.
		●	Very strong defoamer for highly pigmented paints or pigment pastes.
		●	Powder defoamer for flooring systems or epoxy cement applications.
●	●		Defoamer for high quality lacquers with good compatibility. Homogenize prior use!
		●	Highly efficient defoamer for architectural and decorative coatings. Low odor, especially for interior applications.
		●	High efficient, easy to incorporate defoamer emulsion for architectural and decorative paints mainly.
●	●	●	Very efficient defoamer and deaerator for high viscous systems with strong gas incorporations. Excellent re-flow effect improves surface quality.
●	●		Defoamer and deaerator with rheology improvement in order to allow better film build-up. Very fast mode of action, crosslinkable.
●	●		Defoamer and deaerator to reduce flash-off time. Recommended for spray applications.
		●	Defoamer and deaerator for all industrial paints and lacquers, high efficient.
		●	Special polymer defoamer/deaerator, recommended for pigmented systems.
●	●	●	Reduces settling and sagging, enhances edge covering.
●	●	●	Associative thickener to control rheology and flow. It improves applicability by roller or brush. Easy to incorporate.
●	●	●	Rheology modifier to prevent pigment sedimentation, sagging and storage stability.
●	●	●	Associative thickener to control rheology at low shear stress. Recommended for spray application. Excellent against sedimentation and sagging.
		●	Reduces stoving temperature/time.
●	●		Especially for low temperature stoving applications in General Industry and OEM.
		●	Curing component for cathodic precipitable acrylate binders.
		●	Easy to incorporate; enhances surface and through drying.
		●	Enhances surface and through drying.
		●	Based on twin accelerated Manganese. Fast set and through drying with excellent hardness development.
		●	Auxiliary drier combination for ADDITOL® DRY CF series in WB alkyd paint formulations. Ready to use, easy incorporation.

Additives

Additive name	Dosage	Active content (%)	SB, WB, Universal	Additive type
Special alkyd additive				
ADDITOL® XL 109/50LG	0.1 - 2.0% solid binder	50	SB	Phenolic paint additive
TUNGOPHEN® B NV	1.0 - 3.0% solid binder	100	SB	Modified phenol / formaldehyd resin
Special anti adhesion additive				
ADDITOL XL 6568	2.0 - 5.0% total		Universal	Non toxic, modified fatty acid polymer
Special adhesion promoter				
ADDITOL XL 180	0.1- 1.0% total	98	SB	Special phosphoric acid ester
ADDITOL XL 186	0.3- 1.0% total	90	SB	Special phosphoric acid ester

Automotive	Industry	Architecture	Technical features	
		●	●	Anti skinning additive that prevent in can skin formation and control through drying by scavanging oxygen radicals.
		●	●	Special (oxidative) drying control additive to accellerate through drying, improve gloss and flow of SB alkyd systems. Especially recommended for pigmented (non white) mono/topcoats based on medium oil alkyd resins.
	●	●	●	Special anti adhesion additive for the production of peelable coatings (temporary protection and moulding). Recommended for various substrates.
	●	●	●	Adhesion promoter for ferrous & non ferrous metals. Interlayer adhesion improvement in multilayer systems.
	●	●	●	Adhesion promoter for ferrous & non ferrous metals. Very good interlayer adhesion improvement in multilayer systems.



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