

AUTOMOTIVE OEM AND PLASTICS

Liquid Resins and Additives



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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
- 33 manufacturing facilities
- 23 research and technology centers
- 5 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.

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We are allnex

We are recognized as the coating resins pioneer and offer an extensive range of products for many applications. Our portfolio includes traditional Liquid Coating Resins, Crosslinkers, Radiation Curable Resins and Powders as well as Additives.

Broad portfolio

allnex offers a broad portfolio of products for the Automotive OEM and Plastics market. We have a global network of R&D and production sites. Through our experience and extensive industry contacts we are able to advise you on the best selection of Resins and Additives for your developments. The Liquid Resins and Additives (LRA) business provides a comprehensive range of products with its core technologies including: PUD's, SCA's, Acrylics, Polyesters, Alkyds and Additives for use in water borne and solvent borne paint and coatings.

Sustainability and innovation

We care about the environment and have developed a range of products which do not only comply with regulations but are even a few steps ahead. Within this brochure you will find many water borne products and state-of-the art solutions. During product development we take care to reduce the amount of chemicals of concern, focus on energy efficient solutions, high durability and best-in class appearance. Through these innovations we try to bring products to market with the best balance between performance and cost-in-use. With process innovation we strive to deliver the highest and consistent quality possible for these demanding segments.

Product information

This brochure offers an overview of liquid solutions by sub-segment categorized by coating layer, both for metal and plastic substrates. Please contact our technical service staff if you need additional information or have specific questions about an application. 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.



Abbreviations

AHC	Aliphatic hydrocarbons
BDG	Butyl diglycol
BDGA	Butyl diglycol acetate
BG	Butyl glycol
BP	Butoxy propanol
BuAc	Butyl acetate
DPGDME	Dipropylene glycol dimethyl ether
DPM	Dipropylene glycol mono methyl ether
EPA	Ethoxypropyl acetate
i-But	isobutanol
i-Pro	Isopropanol
MP	Methoxy propanol
MPA	Methoxypropyl acetate
MPP	Methoxypropoxy propanol
n-But	n-Butanol
PG	Propylene glycol
PGMEA	Propylene glycol methyl ether acetate
SN	Solvent naphtha
SN150	Solvent naphtha 150
SN180	Solvent naphtha 180
SN180-210	Solvent naphtha 180-210
t-But	t-Butanol
Tol	Toluene
WA	Demineralized water
Xyl	Xylene



Automotive OEM: Primer Surfacer

Product name	Product Description	NV (%)	Solvents	Viscosity (23 °C, 100s-1, Pa.s)	Color (max. value)	AV as supplied (mg KOH / g)	OH (%) (on solids)	Technical features	Curing schedule °C	Stone chip	Hardness	Leveling
Solvent borne												
VIALKYD® AN 950/70X	Modified polyester	70	Xyl	-	5 Iodine	12 max	3,0	Basic resin with excellent allround properties.	140-190	●●●	●●●	●●●
BECKOPOX™ EP 301/75X	Epoxy resin	75	Xyl	11	-	-	-	Modifier resin to improve adhesion and corrosion resistance.	140-190	●	●●●	●●
SETAL® 173 VS-60	Saturated polyester	60	SN/MP/Xyl	1.5	100 APHA	4.8	2.4	Good overall properties.	140-160	●●	●●	●
SETAL 168 SS-80	Saturated polyester	80	BuAc/Xyl	2.4	100 APHA	1.7 max	4.3	Modifier resin. To combine with SETAL® 173.	140-160	●●	●	●●
SETAL 1671 SS-65	Urethane modified Polyester	65	SN/BDGA/i-But/Xyl	1.2	8 Gardner	5.9 max	2.9	Good stone chip resistance and appearance.	140-160	●●●	●●	●●●
RESAMIN® HF 480	Carbamic Resin	> 95%	-	8.5	-	-	-	Modifier resin. Broad compatibility.	140-160	●●●	●	●●●

Product name	Product Description	NV (%)	Solvents	Viscosity (23 °C, 100s-1, Pa.s)	pH	AV as supplied (mg KOH / g)	OH (%) (on solids)	Technical features	Curing schedule °C	Stone chip	Hardness	Leveling
Water borne												
RESYDROL® AZ 541w/42WA	Urethane modified alkyd resin, self crosslinking	42	WA	1.5	7.8	-	-	Outstanding allround properties, industry standard.	150-190	●●●	●●	●●
RESYDROL VAF 5540w/70MP	Water reducible alkyd	70	WA/MP	-	-	0.4	-	Modifier for improved hardness & levelling.	130-190	●●	●●●	●●●
SETAQUA® B E 270	Water borne polyester	70	WA/BDG	12	8	35	2.9	Modifier for improved levelling.	130-190	●●	●●	●●●
RESYDROL AZ 6627w/36WA	Urethane modified alkyd resin	36	WA/MPP	-	6.7	-	-	Outstanding allround properties, for low bake.	130-190	●●●	●●●	●●●
RESYDROL VAX 5227w/55LG	Epoxy modified alkyd resin	55	WA/n-But/MP/BG/MPP	0.3	8	-	-	Modifier for improved corrosion resistance & adhesion.	120-190	●●	●	●●
RESYDROL VAX 5533w/40LG	Epoxy modified alkyd resin, self crosslinking	40	Mix of solvents	-	8.5	-	-	Modifier for improved corrosion resistance & adhesion.	150-190	●●●	●●●	●●
RESYDROL VAX 5538w/50WA	Epoxy modified phosphoric acid ester	50	WA	-	7.2	-	-	Modifier for improved corrosion resistance & adhesion.	120-190	●	●●●	●●
DAOTAN® TW 6425/40WA	Polyurethane dispersion, aliphatic/aromatic polyester based	30	WA/DPGDME/MP	0.05 max.	8.2	-	1.7	Modifier for improved stone chip resistance.	130-190	●●	●	●
DAOTAN STW 6434/40WA	Polyurethane dispersion, aliphatic polyester based	40	WA	-	7.5	-	-	Modifier for improved stone chip resistance.	130-190	●●●	●	●
DAOTAN TW 6490/35WA	Polyurethane dispersion, aliphatic polyester based	35	WA	-	9.2	-	-	Modifier for improved stone chip resistance.	130-190	●●●	●	●

● recommended
 ●● highly recommended
 ●●● preferred choice

Automotive OEM: Base Coat

Product name	Product Description	NV (%)	Solvents	Viscosity (23 °C, 100s-1, Pa.s)	pH	AV as supplied (mg KOH/g)	HEW (as supplied)	Technical features	Metallic effect	Hardness	Flexibility	Physical drying
Water borne												
DAOTAN® VTW 1262/35WA	Polycarbonate based polyurethane dispersion, acrylic modified	35	WA	0.025	8	-	4380	Excellent adhesion and humidity resistance.	●●	●●	●	●●
DAOTAN VTW 1686/40WA	Polyester modified acrylic dispersion	40	WA/BG/DPGDME	0.06	6.4	-	-	Very quick physical drying, high hardness.	●●	●●●	●	●●●
DAOTAN TW 6439/30WA	Aliphatic polyester based polyurethane dispersion	30	WA/MP/DPGDME	<0.08	8	-	-	Good alround grade, excellent mech. properties.	●●	●	●●●	●●
DAOTAN TW 6450/30WA	Aliphatic polyurethane dispersion, polycarbonate based	30	WA/DPGDME/MP	<0.05	8.2	-	-	Excellent adhesion and humidity resistance.	●●	●	●●●	●●
DAOTAN TW 6452/30WA	Aliphatic polyurethane dispersion, polycarbonate based	30	WA/DPGDME/MP	<0.06	8	-	-	Excellent adhesion, humidity resistance and flop.	●●●	●	●●●	●●
DAOTAN VTW 6460/35WA	Aliphatic polyester based polyurethane dispersion, acrylic modified	35	WA	0.21	7.8	-	4840	Perfect blending partner for DAOTAN® 646(x)- family.	●●	●	●●●	●●
DAOTAN VTW 6462/36WA	Aliphatic polyester based polyurethane dispersion, acrylic modified, self-crosslinking	36	WA	0.13	7.9	-	3900	Excellent flop and rheological properties.	●●●	●●	●●	●●
DAOTAN VTW 6463/36WA	Aliphatic polyester based polyurethane dispersion, acrylic modified	36	WA	0.13	7.9	-	3900	As DAOTAN VTW 6462 but without selfcrosslinking.	●●●	●●	●●	●●
DAOTAN TW 6464/36WA	Aliphatic polyester based polyurethane dispersion, acrylic modified, self-crosslinking	36	WA	0.13	7.9	-	3900	As DAOTAN VTW 6462 but improved resin color stability.	●●●	●●	●●	●●
DAOTAN TW 6466/36WA	Aliphatic polyester based polyurethane dispersion, acrylic modified, self-crosslinking	36	WA	0.13	7.9	-	-	Outstanding rheology, humidity resistance and flexibility.	●●●	●●	●●●	●●
RESYDROL® AN 6481w/70BBP	Oil-free polyester, emulsifiable in water	70	n-But/BP	1.5	-	-	-	Blending partner to improve leveling and adhesion.	●	●	●●	
RESYDROL AN 6483W/30WA	Oil-free polyester, emulsifiable in water	30	WA	<0.25	8	6.3	-	Blending partner to improve leveling and adhesion.	●	●	●●●	
SETAQUA® 6802	Acrylic dispersion, alkali swellable	24	WA	0.4 (500 s-1) 65 (1 s-1)	7	7	-	Excellent atomisation.	●●●	●●	●	●●
SETAQUA 6803	Acrylic dispersion, alkali swellable	24	WA	0.30 (500 s-1) 33 (1 s-1)	6.5	6.5	-	Excellent atomisation and paint stability.	●●●	●●	●	●●
SETAL® 6306 SS-60	Water reducible polyester	60	BG	2	-	26	-	Resin for pigment dispersion.			●●●	

● recommended
 ●● highly recommended
 ●●● preferred choice

Automotive OEM: Solid Colour Top Coat

Product name	Product description	NV (%)	Solvents	Viscosity (23°C, 100 s-1, Pa.s)	Viscosity (23°C, 1s-1, Pa.s)	OH (%) (on solids)	Color (max. value)	Acid Value as supplied (mg KOH/g)	Technical features	Appearance/gloss	Chemical Resistance	Durability	Hardness	Rheology
Solvent borne														
SETAL® 84 XX-70	Non drying, short oil alkyd	69	Xyl	5.1	-	3,0	150 APHA	6.4	Suitable as main binder and pigment paste.	●●●	●	●●	●●	
SETAL 90084 BX-67	Non drying, short oil alkyd, SCA modified	66	Xyl/nBut	1.8 (1000 s-1)	7.0	3.0	-	-	Excellent anti-sagging effect.	●●	●	●●	●●	●●●
SETAL 1703 XX-75	Saturated polyester	73	Xyl	3.6	-	3.0	150 APHA	7.6	High solids content at spraying viscosity.	●●	●	●●	●●	
SETAL 91703 SS-53	Saturated polyester, SCA modified	52	SN150/Xyl	0.3 (1000 s-1)	3.1	3.0	-	-	Excellent anti-sagging effect and high paint solids.	●●	●	●●	●●	●●●
SETAL 1715 VX-74	Saturated polyester	72	SN/Xyl	5.4	-	4.4	50 APHA	8.2	High solids, broad compatibility.	●●●	●	●●●	●●	
SETAL 91715 SS-55	Saturated polyester, SCA modified	52	SN/Xyl	0.22 (1000 s-1)	13	4.3	-	-	Excellent anti-sagging effect, broad compatibility.	●●●	●●	●●●	●●	●●●
SETALUX® 1756 W-65	Thermosetting acrylic	65	SN	4.0	-	2.7	125 APHA	11	High application solids, good durability and gloss.	●●●	●●●	●●	●●●	
SETALUX 91756 VS-60	Thermosetting acrylic, SCA modified	60	SN/BuAc	1.2 (1000 s-1)	14	2.7	-	-	Excellent anti-sagging effect.	●●●	●●●	●●	●●●	●●●
VIALKYD® AC 451N/70SNB	Medium oil alkyd	70	SN 180-210	4.8	-	4.2	3 Iodine	4.0 max.	High gloss and excellent weather resistance.	●●●	●●	●●●	●●	

Product name	Product description	NV (%)	Solvents	Viscosity (23°C, Pa.s)	pH	OH (%) (on solids)	Color (max. value)	Acid Value as supplied (mg KOH/g)	Technical features	Appearance/gloss	Chemical Resistance	Durability	Hardness	Rheology
Water borne														
SETALUX 6100 GR-68	Thermosetting acrylic, water thinnable	68	BDG	8.8	-	2.0	250 APHA	12	Good pigment wetting, easy application.	●●●	●	●●●	●	
SETAQUA® 6160	Thermosetting water borne acrylic	45	WA/BG	-	8.2	2.6	-	8.6	Excellent durability. Combine with SETALUX® 6100.	●●●	●●	●●●	●●	
VIACRYL® VSC 6276w/44WA	Thermosetting water borne acrylic	44	WA/DPM/i-Pro	1.3	8.6	2.6	-	15	Low yellowing, high gloss.	●●	●●	●●●	●●	●
VIACRYL VSC 6800w/47WA	Thermosetting water borne acrylic	47	WA	1.2	8.5	3.0	-	12	Excellent appearance, low yellowing, high gloss.	●●●	●	●●	●	
VIACRYL SC 6807w/43WA	Thermosetting water borne acrylic	43	WA	1.2	8.5	2.3	-	18	Low yellowing, high gloss, excellent leveling.	●●	●●	●●●	●●	

● recommended
 ●● highly recommended
 ●●● preferred choice

Automotive OEM: Clear Coat

Product name	Product Description	NV (%)	Solvents	Viscosity (23 °C, 100 s-1) (Pa.s)	Viscosity (23 °C, 1 s-1) (Pa.s)	AV as supplied (mg KOH / g)	OH (%) (on solids)	Technical features	Hardness	Flexibility	Sag-flow balance	Appearance	Chemical resistance	Durability	Scratch resistance
1K - To be combined with melamine resins															
SETALUX® 1756 VV-65	Acrylic	65	SN	3.8	-	11,0	2.7	Good overall properties.	●●	●		●●	●●	●●	●
SETALUX 91756 VS-60	Acrylic, SCA modified	60	SN/BuAc	1.2 (1000 s-1)	14	-	2.7	Good overall properties.	●●	●	●●●	●●	●●	●●	●
SETALUX 1757 VV-70	Acrylic	70	SN	4.5	-	8.5	3.6	Appearance (wet look).	●	●●●		●●●	●	●●	
SETALUX 91757 VX-60	Acrylic, SCA modified	60	SN/Xyl	0.9 (1000 s-1)	8	-	3.6	Appearance (wet look).	●	●●●	●●●	●●●	●	●●	
SETALUX 1760 VB-64	Acrylic	64	SN/n-But	6,0	-	14,0	3.6	Appearance (DOI) and scratch resistance.	●●●			●●●	●●●	●●	●●●
SETALUX 71760 VB-60	Acrylic, SCA modified	60	SN/n-But	3.0 (1000 s-1)	10	-	3.6	Appearance (DOI) and scratch resistance.	●●●		●●●	●●●	●●●	●●	●●●
SETALUX 91760 SS-53	Acrylic, SCA modified	52	SN/n-But/PG	1.0 (1000 s-1)	12	-	3.6	Appearance (DOI) and scratch resistance.	●●●		●●●	●●●	●●●	●●	●●●
SETALUX 71761 VB-60	Acrylic, SCA modified	60	SN/n-But	3.0 (1000 s-1)	21	-	4.1	Appearance (DOI) and scratch resistance.	●●●		●●●	●●●	●●●	●●	●●●
SETALUX 1762 VV-70	Acrylic	70	SN	7.2	-	7.8	2.2	Economy grade. Good overall properties.	●	●●●		●●	●	●●	
SETALUX 1772 VB-70	Acrylic	70	SN/n-But	4.2	-	9.5	4.1	Scratch resistance (wet and dry).		●●●		●●	●	●	●●●
SETALUX 91772 SS-60	Acrylic, SCA modified	60	SN/n-But/PG	1.5 (1000 s-1)	23	-	4.1	Scratch resistance (wet and dry).		●●●	●●●	●●	●	●	●●●
SETALUX 1795 VX-74	Acrylic	74	SN/Xyl	3.8	-	8.2	4.1	Appearance (wet look) and high solids.		●●●		●●●	●	●	
SETALUX 91795 VX-60	Acrylic, SCA modified	60	SN/Xyl	0.55 (1000 s-1)	3.8	-	4.1	Appearance (wet look) and high solids.		●●●	●●●	●●●	●	●	
SETALUX 91796 SS-69	Acrylic, SCA modified	69	SN/BuAc/PGMEA	1.1 (1000 s-1)	21	-	4.1	Appearance (wet look).		●●●	●●●	●●●		●	●●
SETALUX 1797 SS-70	Acrylic	70	SN/BuAc/PGMEA	1.5	-	9.5	4.1	Appearance (wet look).		●●●		●●●		●●	●
SETALUX 1798 VS-70	Acrylic	70	SN/BuAc	3.8	-	8.5	3.8	Appearance (wet look) and durability.	●	●●		●●●	●	●●●	●
SETALUX D A 575 X	Acrylic	75	Xyl	3.5	-	3.8	3.6	Durability.		●●●		●●		●●	●
SETALUX D A 870 BA	Acrylic	70	BuAc	3.5	-	3.8	4.2	Durability, gloss retention.	●	●●		●●	●	●●	●
VIACRYL® SC 370/75SNA	Acrylic	75	SN150/ SN180	5.6 (25 s-1)	25	10,0	3.6	Appearance (gloss, DOI), high solids.	●	●●		●●●	●●	●●	●
VIACRYL SC 341/60SNABAC	Acrylic	60	SN150/ SN180/BuAc	15 (25 s-1)	25	17,0	2.6	Hardness, durability.	●●●			●	●●	●●	●
SETAL® 1715 VX-74	Saturated Polyester	72	SN/Xyl	5.4	-	8.2	4.4	Non-yellowing, gloss retention, high solids.	●	●		●●	●●	●●●	●●
SETAL 91715 SS-55	Saturated Polyester, SCA modified	52	SN/Xyl	0.23 (1000 s-1)	14	-	4.4	Anti-sagging, non-yellowing, gloss retention, high solids.	●	●	●●●	●●	●●	●●●	●●
2K - to be combined with polyisocyanates															
SETALUX 91756 VS-60	Acrylic, SCA modified	60	SN/BuAc	1.2 (1000 s-1)	14	-	2.7	Good overall properties.	●●	●	●●●	●●	●●	●●	●
SETALUX 91767 VX-60	Acrylic, SCA modified	60	SN/Xyl	1.2 (1000 s-1)	6	-	4.1	Appearance and chemical resistance.	●	●●	●●●	●●●	●●●	●●	●
SETALUX 1772 VB-70	Acrylic	70	SN/n-But	4.2	-	9.5	4.1	Scratch resistance (wet- and dry).		●●●		●●	●	●	●●●
SETALUX 91772 SS-60	Acrylic, SCA modified	60	SN/n-But/PG	1.5 (1000 s-1)	23	-	4.1	Scratch resistance (wet- and dry).		●●●	●●●	●●	●	●	●●●
SETALUX 1774 SS-70	Acrylic	70	SN/BuAc/t-But	2,0	-	6.4	5,0	Overall resistance (chemical, durability, polish marks).	●●	●●		●●	●●●	●●	●
SETALUX 1776 VS-65	Acrylic	76	SN/BuAc	4.5	-	4.6	4.5	Overall resistance (chemical, durability, polish marks).	●●	●●		●●	●●●	●●	●
SETALUX 91780 VS-55	Acrylic, SCA modified	55	SN/BuAc	0.55 (1000 s-1)	2	-	4.1	Appearance and overall resistance (chemical-, weather-, polish-).	●	●●	●●●	●●	●●●	●●	●●
SETAL 91715 SS-55	Polyester, SCA modified	52	SN/Xyl	0.22 (1000 s-1)	14	-	4.4	Anti-sagging, durability, non-yellowing, high solids.	●	●	●●●	●●	●●	●●●	●●
SETALUX D A 575 X	Acrylic	75	Xyl	3.5	-	3.8	3.6	Durability.		●●●		●●		●●	●
SETALUX D A 870 BA	Acrylic	70	BuAc	3.5	-	3.8	4.2	Durability, gloss retention.	●	●●		●●	●	●●	●
VIACRYL SC 370/75SNA	Acrylic	75	SN150/ SN180	5.6 (25 s-1)	-	10,0	3.6	Appearance (gloss, DOI), high solids.	●	●●		●●●	●●	●●	●

● recommended
 ●● highly recommended
 ●●● preferred choice

Automotive Plastics: Primer

Product name	Product description	NV (%)	Solvents	Viscosity (23 °C, Pa.s)	Color	AV as supplied (mg KOH / g)	OH (%) (on solids)	Technical features	Hardness	Flexibility	Physical drying
Solvent borne											
VIACRYL® SC 200/40X	Thermoplastic Acrylic	40	Xyl	1.6	2 Iodine	12	-	Universal adhesion, for bumper coatings, high CPO compatibility.	●	●	●●
MACRYNAL® SM 540/60X	Acrylic Polyol	60	Xyl	2	200 Hazen	<3.0	1.4	Universal adhesion, for bumper coatings, high CPO compatibility.	●●	●	●
SETALUX® 2117 XS-30	Thermoplastic Acrylic	31	BuAc/Xyl	1.6	200 APHA	0.3 max	0.6	Universal adhesion.	●●●	●	●●●
SETALUX 1193 SS-51	Acrylic Polyol	53	BuAc	4.6	100 APHA	3.6	1.3	Good stackability. 1K and 2K application.	●●●	●	●●●
SETALUX 1184 SS-51	Acrylic Polyol	52	BuAc/Xyl	9.2	50 APHA	3.6	2,0	Universal adhesion, 1K and 2K application.	●●●	●	●●
SETALUX 1179 BA-57	Acrylic polyol	57	BuAc	7	100 APHA	5.2	1.7	Universal adhesion, excellent through hardening, long potlife.	●●	●●	●●
SETALUX XCS 1516 TS-45	CPO-modified acrylic	45	SN/BuAc/Tol	4.5	-	3.6	0.8	Excellent adhesion on untreated PP.	●	●	●●●
SETALUX XCS 1518 BA-45	CPO-modified acrylic	45	BuAc	6.5	-	3.9	0.8	Excellent adhesion on untreated PP, aromatic free.	●	●	●●●

Product name	Product description	NV (%)	Solvents	Viscosity (23 °C, Pa.s)	pH	Neutralization	HEW (as supplied)	Technical features	Hardness	Flexibility	Physical drying
Water borne											
DAOTAN® TW 6425/40WA	Polyester based polyurethane dispersion, OH-functional	40	WA	0.6	7.7	DMEA	2550	Excellent adhesion on pre-treated PP/ EPDM.	●	●	●
DAOTAN TW 7225/40WA	Polyester based polyurethane dispersion, OH-functional	40	WA	0.6	7.8	DMEA	1460	Good steam jet resistance, excellent adhesion on PP/EPDM.	●	●	●
DAOTAN VTW 1262/35WA	Polycarbonate based polyurethane dispersion, acrylic modified	35	WA	0.03	8	DMEA	5380	Universal adhesion, high humidity resistance (hot water).	●●	●	●●
DAOTAN TW 6439/30WA	Polyester based polyurethane dispersion	30	WA/MP/DPGDME	<0.08	8	TEA	-	Universal adhesion, very quick physical drying.	●	●●	●●●
DAOTAN TW 6450/30WA	Polycarbonate based polyurethane dispersion	30	WA/MP/DPGDME	<0.05	8.2	DMEA	-	Universal adhesion, high humidity resistance (hot water).	●	●●	●●
DAOTAN TW 6451/32WA	Polyester based polyurethane dispersion	32	WA/MP/DPGDME	<0.1	8.4	DMEA	-	Universal adhesion, very quick physical drying.	●	●	●●
DAOTAN TW 6490/35WA	Polyester based polyurethane dispersion, acid functional	35	WA	0.075	9.2	TEA	-	Universal adhesion, very high elongation.	●	●●●	●●
DAOTAN TW 6495/35WA	Polyester based polyurethane dispersion, acid functional	35	WA	0.075	8.6	DMEA	-	Universal adhesion, very high elongation.	●	●●●	●●
SETAQUA® 6754	Self crosslinking acrylic dispersion	40	WA	-	-	-	-	Universal adhesion also on substrates like PS.	●●●	●	●●

● recommended
 ●● highly recommended
 ●●● preferred choice

Automotive Plastics: Base Coat

Product name	Product description	NV (%)	Solvent	Viscosity (23 °C, Pa.s)	Color	AV as supplied (mg KOH / g)	OH (%) (on solids)	Technical features	Metallic effect	Hardness	Flexibility	Physical drying
Solvent borne												
VIACRYL® SC 303/65XB	Thermosetting acrylic	65	Xyl/n-But	24	80 Hazen	8.1	2.4	Good adhesion, gloss and hardness, quick physical drying, good compatibility with CAB´s.	●●	●	●●	●●
DUROFTAL® PE 912/60SNA	Saturated polyester	60	SN/MP/Xyl	1.4	5 Iodine	6.0 max.	2.4	High hardness, very good adhesion and flexibility.		●●	●●	
SETAL® 173 VS-60	Saturated Polyester	60	SN/MP/Xyl	1.4	100 APHA	4.8	2.4	Good overall properties.	●●	●●	●	●●
SETAL 168 SS-80	Polyester polyol	80	BuAc/Xyl	2.4	150 APHA	1.7 max.	4.3	Modifier resin. To combine with SETAL® 173.	●●	●	●●	●
SETAL 90173 SS-50	Saturated polyester, SCA modified	50	SN/Xyl/MP	0.50 (1000 s-1) 20 (1 s-1)	-	-	2.4	Medium - to High Solids BC. Excellent compatibility with CAB.	●●●	●●	●●	●
RESAMIN® HF 480	Carbamic Resin	> 95%	-	8.5	-	-	-	Modifier resin. Broad compatibility.	●	●	●●●	●

Product name	Product description	NV (%)	Solvents	Viscosity (23 °C, Pa.s)	pH	AV as supplied (mg KOH / g)	HEW (as supplied)	Technical features	Metallic effect	Hardness	Flexibility	Physical drying
Water borne												
DAOTAN® VTW 1262/35WA	Polycarbonate based polyurethane dispersion, acrylic modified	35	WA	0.025	8	-	4380	Excellent adhesion and humidity resistance (hot water).	●●	●●	●	●●
DAOTAN TW 6439/30WA	Aliphatic polyester based polyurethane dispersion	30	WA/MP/DPGDME	<0.08	8	-	-	Good overall plastic adhesion, very quick physical drying.	●	●	●●	●●●
DAOTAN TW 6450/30WA	Aliphatic polyurethane dispersion, polycarbonate based	30	WA/DPGDME/MP	<0.05	8.2	-	-	Excellent adhesion and humidity resistance (hot water).	●●	●	●●	●●
DAOTAN TW 6452/30WA	Aliphatic polyurethane dispersion, polycarbonate based	30	WA/DPGDME/MP	<0.06	8	-	-	Excellent adhesion and humidity resistance, high flop index.	●●●	●	●●	●●
DAOTAN VTW 6462/36WA	Aliphatic polyester based polyurethane dispersion, acrylic modified, self-crosslinking	36	WA	0.13	7.9	-	3900	Excellent flop and rheological properties.	●●●	●●	●●	●●
DAOTAN VTW 6463/36WA	Aliphatic polyester based polyurethane dispersion, acrylic modified	36	WA	0.13	7.9	-	3900	As DAOTAN® VTW 6462 but not selfcrosslinking.	●●●	●●	●●	●●
DAOTAN TW 6464/36WA	Aliphatic polyester based polyurethane dispersion, acrylic modified, self-crosslinking	36	WA	0.13	7.9	-	3900	As DAOTAN VTW 6462 but with improved resin color stability.	●●●	●●	●●	●●
DAOTAN TW 6466/36WA	Aliphatic polyester based polyurethane dispersion, acrylic modified, self-crosslinking	36	WA	0.13	7.9	-	-	Outstanding rheology, humidity resistance and flexibility.	●●●	●●	●●●	●●
SETAQUA® 6803	Acrylic dispersion, alkali swellable	24	WA	0.30 (500 s-1) 33 (1 s-1)	6.5	6.5	-	Excellent atomisation and paint stability.	●●●	●●	●	●●
DAOTAN TW 7000/40WA	Polycarbonate based polyurethane dispersion, OH functional	40	WA/DPGDME/MP	0.55	8.2	27	825	Good adhesion to automotive plastics, excellent chemical resistance.	●●	●●●	●●	●
DAOTAN TW 7010/36WA	Polycarbonate based polyurethane dispersion, OH functional	36	WA/DPGDME/MP	0.1	8	-	1480	As DAOTAN TW 7010, but with improved hot water resistance.	●●●	●●	●●	●

● recommended
 ●● highly recommended
 ●●● preferred choice

Automotive Plastics: Mono Coat and Clear Coat

Product name	Product description	NV (%)	Solvents	Viscosity (23 °C, Pa.s)	pH	AV as supplied (mg KOH / g)	%OH (on solids)	Technical features	Sag flow balance	Hardness	Flexibility	Physical drying	Soft-touch	Scratch resistance
Solvent borne														
MACRYNAL® SM 508/50BAC	Acrylic Polyol	50	BuAc	0,4	200 Hazen	6	2,7	Good adhesion, high chemical and water resistance.		●●	●	●		●
MACRYNAL SM 510n/60LG	Acrylic Polyol	60	Xyl/BuAc/SN	3,0	25 Hazen	4,5	4,5	Good adhesion, high chemical and water resistance.		●●	●	●		●●
MACRYNAL VSM 2155/60EPAC	Acrylic Polyol	60	EPA	4,4	80 Hazen	<3.6	5,8	Very high chemical resistance, top- and clear coats.		●●	●	●		●●
SETALUX® 1152 SS-60	Acrylic Polyol	61	Xyl/MPA	4,0	75 APHA	4,8	4,2	Ease of application. Excellent appearance. Chemical resistance.		●●	●●	●●●		●●
SETALUX 1753 SS-70	Acrylic Polyol	70	BuAc	5,0	35 APHA	10	4,2	Higher solids version of SETALUX® 1152.		●●	●●	●●		●●
SETALUX 1198 SS-70	Acrylic Polyol	70	BuAc	10,0	35 APHA	6,7	4,2	High build and gloss.		●●●	●●	●●		●●
SETALUX 81198 SS-55 YA	Acrylic Polyol, rheology modified	54	BuAc	0.55 (1000 s-1) 4.0 (1s-1)	-	-	4	Excellent anti-sag / flow balance in clearcoat.	●●●	●●●	●●	●●		●●
SETAL® 1462 SS-75	Polyester Polyol	75	BuAc/Xyl	2,2	50 APHA	1.7 max	5,4	Non yellowing, excellent durability.		●	●●●	●		●
SETAL 82166 SS-64	Polyester Polyol, rheology modified	64	BuAc/Xyl	0.40(1000s-1) 6.0 (1s-1)	-	-	5.4	Sag / flow balance in clear coat.	●●●	●	●●●	●		●●
SETAL 81462 SS-55	Polyester Polyol, rheology modified	54	BuAc/Xyl	0.18 (1000 s-1) 2.7 (1s-1)	-	-	5,4	Anti-sag / flow balance in clear coat.	●●●	●	●●●	●		●
SETALUX XCS 1516 TS-45	CPO-modified acrylic	45	SN/BuAc/Tol	4,5	-	3,6	0,8	Excellent adhesion on untreated PP.		●	●	●●●		●
SETALUX XCS 1518 BA-45	CPO-modified acrylic	45	BuAc	6,5	-	3,9	0,8	Excellent adhesion on untreated PP, aromatic free.		●	●	●●●		

Product name	Product description	NV (%)	Solvents	Viscosity (23 °C, Pa.s)	pH	AV as supplied (mg KOH / g)	HEW (as supplied)	Technical features	Metallic effect	Hardness	Flexibility	Physical drying	Soft-touch	Scratch resistance
Water borne														
DAOTAN® TW 7000/40WA	Polycarbonate based polyurethane dispersion, OH functional	40	WA/DPGDME/MP	0.6	8.2	27	825	Good adhesion to automotive plastics, high chemical resistance.	●●	●●●	●●	●		●●
DAOTAN TW 7010/36WA	Polycarbonate based polyurethane dispersion, OH functional	36	WA/DPGDME/MP	0.1	8	-	1480	As DAOTAN TW 7000 but with improved hot water resistance.	●●●	●●	●●	●		●●
DAOTAN TW 6473/37WA	Polyurethane dispersion, acrylic modified, self-crosslinking	37	WA/DPGDME	0.4	8	-	-	Highly recommended for anti-fog coating.		●	●	●●		
RESYDROL® AN 6617w/65MPP	Water reducible polyester	65	MPP	4.5	7.6	-	-	For soft touch coatings, excellent chemical resistance.		●	●●●	●	●●	●●●
MACRYNAL VSM 2521w/42WAB	Acrylic polyol emulsion	42	WA/nBut	0.7	7.8	8.2	950	Recommended for exterior OEM plastic base coats and top coats.	●	●●●	●	●	●	●●
MACRYNAL SM 6826w/43WA	Acrylic polyol emulsion	43	WA	0.7	7.5	<6.4	900	For deep matte finishes, co-binder for silk-touch formulations.		●●●	●	●	●	●●●

- recommended
- highly recommended
- preferred choice

Additives

Additive name	Dosage	Active content (%)	SB, WB, Universal	Additive type	Application			Technical features
					Primer	Base coat	Top coat	
Pigment wetting & Dispersing additives								
ADDITOL® XL 250	0.5 - 5.0% pigment	55	Universal	Low MW anionic pigment wetting		●	●	Very strong pigment wetting for inorganic and metallic effect pigments. Reduces dispersing time, improves gloss and color strength.
ADDITOL XL 6577	2.5-10% inorganic pigment 15-60% matting agent	50	SB	Anionic wetting	●	●	●	Supra dispersant for inorganic pigments and extenders. Best in class efficiency, high loading and low viscosities.
ADDITOL VXL 6237 N	3-10% inorganic pigment 10-50% organic pigment	30	SB	High MW polymer, cationic	●	●	●	Dispersing additive for all pigment types. Recommended for direct grinding and binder free pigment concentrates. Broad compatibility.
ADDITOL VXW 6208	3-10% inorganic pigment 15-50% organic pigment	50	WB	High MW polymer, non ionic	●	●	●	High efficient dispersing additive for all pigment types. The non ionic polymer structure allows utilization in sensitive formulations such as WB epoxy systems. Highly recommended for anti corrosive systems, for both direct grinding and pigment concentrates.
ADDITOL XL 6521	3-10% inorganic pigment 15-60% organic pigment	60	SB	High MW polymer, cationic		●	●	Powerful dispersing additive for difficult wettable pigments such as carbon black. Delivers high intensive color and high gloss without re flocculation.
ADDITOL VXW 6374	3-10% inorganic pigment 15-40% organic pigment	50	WB	Anionic wetting co-dispersant	●	●	●	Wetting additive to improve gloss and color strength of difficult wettable pigments. It allows an improved material flow.
ADDITOL VXW 6394	20-30% inorganic pigment 30-70% organic pigment	40	WB	High MW block co-polymer	●	●	●	Wetting and dispersing agent for aqueous resin free-pigment concentrates. Enhances stability and colour strength. Highly recommended for car interior coatings directly on plastics.
ADDITOL XW 6591	Grinding medium	35	WB	Modified acylic polymer, crosslink able		●	●	Co-crosslinkable grinding medium with high pigment loading capacity. Improves chemical resistances. Suitable for bright colors. Broad compatibility.
Flow and leveling additives silicone free								
ADDITOL XL 480	0.1 - 0.5% total	70	SB	Modified low MW acrylic polymer, FDA	●	●	●	Leveling additive for improved surface quality and anti crater effect. Highly recommended for car refinish and coil coating systems.
ADDITOL XW 395	0.2 - 1% on binder	58	WB	Acrylic polymer, FDA	●	●	●	Multi purpose leveling additive for improved surface quality, anti crater and anti pinhole effect. Recommended for oil contaminated surfaces.
MODAFLOW® 9200	0.1 - 0.5% on total	100	SB	Low MW acrylic polymer, crosslinkable	●	●	●	High efficient flow modifier. Reduces film defects and strongly increases gloss and brilliancy. Recommended for high quality top / mono coats, especially recommended for clear coat systems.
MODAFLOW AQ 3025	1 - 2% on total	25	WB	Medium MW acrylic polymer, FDA	●	●	●	Flow promoter for WB high quality surfaces. Improves gloss and brilliancy, reduces micro foam.
MODAFLOW RESIN	0.1 - 1% on total	100	SB	High MW acrylic polymer, FDA	●	●	●	High efficient flow promoter for all SB top / mono coats. Recommended for pigmented systems, limited compatibility to clear coat systems. Improved degassing effect.
Substrate wetting and anti crater additives								
ADDITOL XW 390	0.1 - 1% on total	50	WB	Fluor modified polymer	●	●	●	Silicone free substrate wetting, anti crater and leveling additive. Recommended for difficult wettable substrates. Not foam stabilizing. Does not harm intercoat adhesion.
ADDITOL VXW 6214	0.2 - 1% on binder	57	WB	Fluor modified polymer	●	●	●	Silicone free substrate wetting and leveling. Especially recommended for plastic substrates on which it gives better adhesion than ADDITOL® VXW 6503N.
ADDITOL VXW 6503 N	0.1 - 1% on total	50	Universal	Special silicone tenside	●	●	●	Very strong substrate wetting and surface energy control additive. Not foam stabilizing and no negative influence on intercoat adhesion.
Defoamer (silicone free)								
ADDITOL VXW 4973	0.1 - 0.6% on total	100	WB	Mineral oil, waxes	●	●	●	Highly efficient defoamer with good compatibility and easy incorporation. Broad field of application.
ADDITOL VXW 6386	0.5 - 1.5% on total	100	WB	Hydro carbons, waxes	●	●	●	Defoamer for high quality coatings such as high gloss stoving systems.
Air release additives (silicone free)								
ADDITOL VXW 4909	2 - 10% on binder	79	WB	Special fatty acid component	●	●	●	Defoamer and deaerator with broad compatibility and easy incorporation. Recommended for automotive systems.
ADDITOL VXW 4926	2 - 15% on binder	100	WB	Special fatty acid component	●	●	●	Defoamer and deaerator with impact on rheology (film build up). Recommended for automotive systems.

Additives

Additive name	Dosage	Active content (%)	SB, WB, Universal	Additive type	Application			Technical features
					Primer	Base coat	Top coat	
Rheology additives								
ADDITOL® VXW 6387	0.1 - 5% on pigment	60	Universal	Special fatty acid component	●	●	●	Rheology modifier to prevent pigment sedimentation and to improve sagging control and storage stability.
ADDITOL VXW 6388	0.1 - 3% on total	35	WB	Polyurethane thickener	●	●	●	Associative thickener to control rheology and flow. Low shear active for spray application - improved anti sagging and sedimentation.
SETALUX® 10-6266	2-5% on resin solids	50	SB	Acrylic Rheology Control Agent			●	Rheology control agent; provides sag control to 1K and 2K clearcoats.
Catalysts								
CYCAT® VXK 6395	5 - 15% on binder	25	Universal	Ionic blocked pTSA catalyst	●	●	●	Strong acid catalyst for stoving systems. Reduces stoving time / temperature. Especially recommended for low bake conditions - early deblocking.
Special additive								
RESAMIN® HF 480	0,2 - 10% on total	100	SB	Carbamide resin based on butylurethane and formaldehyde	●	●		Improves mechanical properties (stone chip resistance) of SB base coats and SB primers. Reduces mottling and improves overspray uptake of SB base coats.

