

WORLÉE®

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Raw material for paints and lacquers
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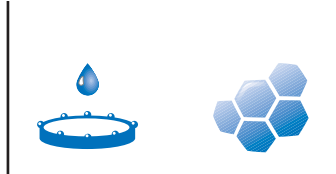
additives



binders



Contents



Acrylic Resins	solvent based, hydroxyl group containing	WorléeCryl A	3
Acrylic Resins	solvent based, thermoplastic	WorléeCryl L	3
Acrylic Resins	water based emulsions, hydrosols, solutions	WorléeCryl	4
Alkyd Resins	acrylated	WorléeKyd AC	5
Alkyd Resins	solvent based, short oil, airdrying	WorléeKyd	5
Alkyd Resins	solvent based, medium oil, airdrying	WorléeKyd	6-7
Alkyd Resins	solvent based, long oil, airdrying	WorléeKyd	7-8
Alkyd Resins	solvent based, long oil, urethane modified	WorléeKyd	9
Alkyd Resins	solvent based, stoving systems, reactive and NC-combination	WorléeKyd	10
Alkyd Resins Acrylic Resins	solvent based, thixotropic	WorléeThix	11-12
Alkyd Emulsions	PU modified, water based	WorléeSol E	12
Alkyd Emulsions	water based	WorléeSol NW	12
Alkyd Resins	water based, air and forced drying	WorléeSol	13
Alkyd Resins	water based, for stoving systems	WorléeSol	13
Polyesters	water based, oil free, saturated	WorléePol	14
Polyesterpolyols Polyetherpolyols	solvent free, saturated	WorléePol	14
Polyesters	solvent free, saturated	WorléePol	14
Epoxy Esters	drying	WorléeDur	15
Special Hardeners	for epoxy resins	WorléeDur H	15
Maleic Resins		WorléeSin	16
Hard Resins	phenol modified	WorléeFen	16
Additives	for paints and lacquers	WorléeAdd Resiflow	17-19
Adhesion Promoters		Special-Primer	19
Defoamers	for water and solvent based paints, lacquers and special applications	WorléeAdd	20
Additives	for powder coatings	WorléeAdd Resiflow	21
Specialities	for powder coatings		22
Sales Organisation			22-25



WorléeCryl - Acrylic Resins, solvent based, hydroxyl group containing

Type	OH-content on solids [%]	Flash point DIN EN 22719 [°C]	Viscosity 20°C, del.form Brookfield, ISO 2555 [mPa.s]	Forms of delivery	Main uses and principal characteristics
W'Cryl A 1135	3,5	approx. 23	3.000-4.000	60% in xylene	W'Cryl A 1135 is an acrylate copolymer for the manufacture of industrial coatings with very good resistance against water and other agents.
W'Cryl A 1218	1,8	approx. 26	5.000-7.000	50 % in BAc 98/100	High reactivity and long pot life. For fast drying wood and furniture lacquers. CAB compatible.
W'Cryl A 1220	2,0	approx. 26	1.000-2.000	60 % in BAc 98/100	W'Cryl 1220 is an acrylate copolymer for the manufacture of high quality plastic coatings.
W'Cryl A 1320	2,0	approx. 26	2.000-3.000	50 % in BAc 98/100	For high quality wood and furniture lacquers, good initial drying.
W'Cryl A 2116	1,6	approx. 47	2.000-2.500	60 % in arom. HC 155-180	For fast drying industrial paint with good gloss. Also for decorative paints - in combination with WorléeThix A 2125 - for effect finishes.
W'Cryl A 2120	2,0	approx. 26	500-1.200	50 % in BAc 98/100	For fast drying primers and machine paints.
W'Cryl A 2127 HS	2,7	approx. 24	800-3.000	70% in xylene	W'Cryl A 2127 HS is a low viscous hydroxyacrylate which can be cross-linked with polyisocyanates to formulate low VOC industrial finishes.
W'Cryl A 2130	3,0	approx. 25	3.500-7.000	60 % in x/BAc/arom. HC 155-180	For two component industrial paints with good mechanical properties and high gloss with good outdoor durability.
W'Cryl A 2141	4,1	approx. 26	25.000-35.000	70 % in BAc 98/100	For high quality air and forced drying paints on metal, wood and plastics.
W'Cryl A 2210	1,0	approx. 47	17.000-22.000	60 % in arom. HC 155-180	For very fast drying primers and fillers with very good adhesion properties on different substrates. Also usable as a one component system.
W'Cryl A 2218	1,8	approx. 25	500-2.000	50 % in x/BAc (9:1)	For air and forced drying 2 pack primers, fillers and top coats with excellent adhesion on steel, aluminium and zinc.
W'Cryl A 2230 W	3,0	50-55	max. 20.000	45 % in water / solvent blend	W'Cryl A 2230 W is a water emulsified hydroxy-acrylate for the production of exterior resistant isocyanate cross-linked two component top coats with outstanding drying properties, film hardness and gloss.
W'Cryl A 2241 W	4,1	50-55	max. 25.000	45 % in water / solvent blend	W'Cryl A 2241 W is a water emulsified hydroxy-acrylate for the production of isocyanate cross-linked exterior resistant two component top coats which exhibit long pot-life, high gloss and good adhesion properties.
W'Cryl A 2445	4,5	approx. 25 approx. 49	3.000-5.000 8.000-12.000	60 % in x/BAc/arom. HC 155-180 60 % in arom. HC 155-180	For high quality industrial and machine paints; also for car repair finishes with excellent UV-stability.



WorléeCryl - Acrylic Resins, solvent based, thermoplastic

Type	Flash point DIN EN 22719 [°C]	Flow time 20 °C DIN 53211-4 [s]	Forms of delivery	Main uses and principal characteristics
W'Cryl L 241	approx. 60	80-120 (40% in isoparaffin. HC 170-200)	60 % in isoparaffin. HC 170-200	Neutral low odour acrylic resin, mainly for wall and ceiling paints, very good insulating coat for nicotine, chimney and water spots, for chlorine free formulations, without plasticizer.
W'Cryl L 2380	approx. 36	approx. 500 mPa.s (del. form, 20°C, ISO 2555)	50% in dearomat. HC 160-200	Physically drying thermoplastic acrylic resin for different coating systems improving hardness and gloss.
W'Cryl L 2580	approx. 68	Viscosity, 23°C, del. form., Brookfield, ISO 2555 3.000-7.000 mPa.s	70 % in isoparaffin. HC 170-200	Neutral, soft, low odour acrylic resin mainly used for wall and ceiling paints, low VOC. Very good insulating coat for nicotine, chimney and water spots.
W'Cryl L 2822	approx. 23	Viscosity, 23°C, del. form., Brookfield, ISO 2555 8.000-10.000 mPa.s	75 % in xylene	Self crosslinking thermoplastic acrylic copolymer to be used as resin of addition in low VOC industrial paints to improve drying and film surface hardness.

WorléeCryl - Acrylic Resins, water based - emulsions, hydrosols, solutions



Type	Monomer	Non volat. content DIN EN ISO 3251 [%]	pH-Value DIN 53785	Density DIN 51757 [g/cm ³]	MFFT [°C]	Viscosity 20° C, del. form Brookfield, ISO 2555 [mPa·s]	Main uses and principal characteristics
W'Cryl 7107	methacrylic copolymer emulsion	40	7,2-8,0	1,07	> 95	max. 500	As mixing component W'Cryl 7107 is universally suitable for improving film hardness, sandability, blocking resistance and stackability.
W'Cryl 7120	styrene acrylic emulsion	49	8,2-9,0	1,09	15	200 - 800	Corrosion inhibiting primers on different metals (e.g. iron, aluminium), good weather resistance.
W'Cryl 7135	styrene acrylic emulsion	42	7,5-8,5	1,04	39	max. 1.000	Topcoats on metal, wood, plastics (PS, ABS). Also for temporary anti-corrosive primers on metal, can be combined with water thinnable alkyd resins.
W'Cryl 7137	styrene acrylic emulsion	42	7,5-8,5	1,04	28	max. 200	Allround emulsion for top coats on plastic, metal, wood and for corrosion inhibiting primers with very good adhesion on steel and low water absorption.
W'Cryl 7158	styrene acrylic emulsion	49	7,5-8,0	1,06	5	max. 500	Self-crosslinking styrene modified acrylic emulsion for primers with excellent results in corrosion protection tests.
W'Cryl 7189	methacrylic copolymer emulsion	49	7,0-8,0	1,08	16	max. 200	Flexible binder for wall paints, tiles and building adhesives. Fast setting, high initial adhesion, highly flexible.
W'Cryl 7407	pure acrylic	44	7,5-8,5	1,06	37	max. 500	Pure acrylic emulsion providing wood warming to clear furniture lacquers.
W'Cryl 7410	pure acrylic	45	7,5-8,5	1,06	39	max. 500	Self-crosslinking acrylic polymer for the formulation of aqueous furniture lacquers with good resistance against household chemicals.
W'Cryl 7450	pure acrylic emulsion	45	7,0-8,0	1,06	0	max. 500	Good blocking stability, in combination with PU-dispersion wood, parquet lacquers and top coats for wood can be formulated.
W'Cryl 7461	pure acrylic emulsion	55	7,0-8,0	1,06	0	max. 500	Self-crosslinking pure acrylic emulsion with high solid content for formulating block-resistant, high gloss emulsion paints with very good levelling properties. Low VOC value in pigmented top coats, solvent free formulations are possible for glazings and colourless systems.
W'Cryl 7463	pure acrylic emulsion	55	7,0-8,0	1,06	13	max. 1000	Self-crosslinking pure acrylic emulsion for the formulation of blocking resistant, high gloss brushable paints with a low VOC-content.
W'Cryl 7510	styrene acrylic emulsion	50	7,5-8,5	1,05	20	2.000-5.000	For manufacturing dispersion paints for indoor application.
W'Cryl 7520	acrylic emulsion	50	8,5-9,0	1,05	14	1.600-2.400	For manufacturing dispersion paints for indoor and outdoor application and coloured quartz sand plaster.
W'Cryl 7712 W	pure acrylic solution, cationic	26	approx. 5,0	1,04	-	300-800	Filler and colourless sealants for wood. Excellent insulating against bleeding, pigmented and transparent. Nicotine insulating paints.
W'Cryl 8025	pure acrylic solution	25	8,0-9,0	1,02	-	200-800	For production of primers on wood and roller application.



WorléeKyd - Alkyd Resins, solvent based, short oil, air drying

Type	Oil [%]	Oil type	Phth. anhyd. [%]	Colour DIN ISO 4630, Gardner	Acid value DIN EN ISO 3682 [mgKOH/g]	Flow time 20 °C DIN 53211-4 [s]	Forms of delivery	Main uses and principal characteristics
W'Kyd AC 2550	25	drying veg. fatty acids	17	max. 5 (50 % in ws 135-175) max. 5 (50 % in dearomat HC 140-165)	max. 10	150-210 (50 % in ws 135-175) 200-260 (50 % in dearomat. HC 140-165)	60 % in ws 135-175 60% in dearomat. HC 140-165	Acrylated alkyd resin for extremely fast drying primers and top coats.
W'Kyd AC 2551	25	drying veg. fatty acids	17	max. 5 (50 % in x)	max. 10	90-150 (50 % in x)	60 % in xylene	Acrylated alkyd resin for extremely fast drying primers and top coats.
W'Kyd AC 2943	29	drying veg. fatty acids	19	max. 5 (50 % in x)	max. 12	30-60 (50 % in x)	75% in xylene	Acrylated low viscous alkyd resin for high solid primers.
W'Kyd L 138	38	linseed and tung oil	30	max. 10 (50 % in X)	max. 15	250-300 (50 % in x)	60 % in xylene	Phenolic mod., for fast drying primers and top coats, putties and fillers.
W'Kyd LH 3702	38	linseed and tung oil	25	max. 10 (40 % in dearomat. HC 160-200)	max. 20	90-130 (40% in dearomat. HC 160-200)	50 % in dearomat. HC 160-200	Dearomatic air drying base and top coats.
W'Kyd MH 38	39	mixed fatty acids and tung oil	38	max. 15 (50 % in x)	max. 25	140-170 (50 % in x)	60 % in xylene	Primers and top coats, good elasticity and resistance properties.
W'Kyd MH 42	42	drying veg. fatty acids	24	max. 15 (50 % in ws 135-175) max. 15 (50 % in dearomat. HC 140-165)	max. 20	120-150 (50 % in ws 135-175) 50-70 (40% in dearomat. HC 140-165)	60 % in ws 135-175 60% in dearomat. HC 140-165	Primers and topcoats, „Laroflex“ (BASF) compatibility.
W'Kyd MH 439	39	mixed fatty acids	32	max. 10 (50 % in x) max. 10 (50 % in ws 135-175/ Solv.PM)	max. 25	100-130 (50 % in x) 140-170 (50 % in ws135-175/ Solv.PM)	60 % in xylene 60 % in ws 135-175/ Solv. PM	Phenolic modified, fast drying primers and top coats, „Laroflex“ (BASF) compatibility.
W'Kyd S 3001	30	drying veg. fatty acids	35	max. 10 (50 % in x/Solv. PM 8:2)	max.12	20-35 (50 % in x/Solv. PM)	70 % in xylene/ Solv. PM 8:2)	Low viscous, fast drying alkyd resin for manufacturing low VOC industrial primers and top coats
W'Kyd SM 340	40	drying veg. fatty acids	30	max. 10 (50 % in x)	max. 20	130-170 (50 % in x)	60 % in xylene	Fast drying primers and top coats, good elasticity, good resistance properties.
W'Kyd SM 400	34	drying veg. fatty acids	30	max. 10 (50 % in x)	max. 20	90-110 (50 % in x)	60 % in xylene	Fast drying primers and paints with excellent durability. With amino resins reactive stoving enamels with good stability. „Laroflex“ (BASF) compatibility.
W'Kyd SM 426	26	drying veg. fatty acids	40	max. 10 (50 % in x)	max. 15	90-110 (50 % in x)	60 % in xylene	Very fast drying alkyd resin for air and forced drying primers and top coats.
W'Kyd SM 433	33	drying veg. fatty acids	38	max. 10 (50 % in x)	max. 15	60-80 (50 % in x)	60 % in xylene	Fast drying primers and top coats, high solids, low thermoplasticity, partial „Laroflex“ (BASF) compatibility.
W'Kyd TT 3502	35	drying veg. fatty acids	24	max. 15 (60 % in x)	max. 20	60-70 (60 % in x)	80 % in xylene	Low viscous, fast drying alkyd resin for low VOC industrial primers.
W'Kyd V 298	38	drying veg. fatty acids	25	max. 10 (40 % in ws 135-175)	max. 20	90-130 (40 % in ws 135-175)	55 % in ws 135-175	Fast drying primers, very good elasticity and durability, dilutable with white spirit.



Type	Oil [%]	Oil type	Phth anhyd. [%]	Colour DIN ISO 4630, Gardner	Acid value DIN EN ISO 3682 [mgKOH/g]	Flow time 20 °C DIN 53211-4 [s]	Forms of delivery	Main uses and principal characteristics
W'Kyd B 845	45	special fatty acids	25	max. 10 (40 % in ws 145-195) max. 10 (40 % in x)	max. 15	80-100 (40 % in ws 145-195) 130-160 (60% in x)	55 % in ws 145-195 70 % in xylene	Fast drying radiator paints, automotive and machinery refinishing enamels with good gloss. „Laroflex“ (BASF) compatibility.
W'Kyd B 850	50	special fatty acids	30	max. 10 (40 % in ws 145-195)	max. 15	40-50 (40 % in ws 145-195)	55 % in ws 145-195	Fast drying radiator and industrial paints.
W'Kyd B 850 U	45	special fatty acids	17	max. 10 (40 % in ws 145-195)	max. 15	80-120 (40 % in ws 145-195)	50 % in ws 145-195/ x	Extremely fast drying, urethane modified, for primers and topcoats, good recoatability.
W'Kyd B 4901	49	cotton oil	24	max. 10 (40 % in dearomat. HC 160-200)	max. 12	60-70 (40 % in dearomat. HC 160-200)	50 % in dearomat. HC 160-200	Fast drying, for air and forced drying industrial, vehicle and machine paints as well as dearomat. do-it yourself and radiator paints.
W'Kyd B 4901 nv	49	cotton oil	24	max. 10 (55 % in dearomat. HC 160-200 / methoxy-propanol 3/1)	max. 12	65-75 (55 % in dearomat. HC 160-200 / methoxy-propanol 3/1)	75 % in dearomat. HC 160-200 / methoxy-propanol 3/1	Fast drying, for air and forced drying industrial, vehicle and machine paints as well as dearomat. do-it yourself and radiator paints.
W'Kyd BS 830	45	special fatty acids, silicone modified	17	max. 10 (50 % in ws 145-195) max. 10 (50 % in isoparaffin. HC 170-200) max.10 (50 % in dearomat. HC 160-200)	max. 15	55-70 (50 % in ws 145-195) 170-220 (50 % in isoparaffin. HC 170-200) 120-150 (50 % in dearomat. HC 160-200)	60 % in ws 145-195 60 % in isoparaffin. HC 170-200 60 % in dearomat. HC 160-200	Silicone modified alkyd resin for high quality industrial and maintenance paints with very good drying properties, high gloss retention and corrosion resistance.
W'Kyd BS 5005	50	special veg. fatty acids	15	max. 5 (50 % in dearomat. HC 160-200)	max. 15	25-40 (50 % in dearomat. HC 160-200)	80 % in dearomat. HC 160-200	Low viscous, air drying, silicone modified alkyd resin for industrial and house paints, low VOC.
W'Kyd BSA 4915	49	special veg. fatty acids	-	max. 5 (60 % in dearomat. HC 160-200)	max. 12	30-50 (60 % in dearomat. HC 160-200)	80 % in dearomat. HC 160-200	Low viscous, air drying, special modified alkyd resin with good resistance properties for industrial and house paints, low VOC.
W'Kyd BT 5001	50	special veg. fatty acids	24	max. 10 (50 % in dearomat. HC 160-200)	max. 12	60-70 (50 % in dearomat. HC 160-200)	65 % in dearomat. HC 160-200)	Fast drying alkyd resin for low VOC house paints and dearomatized machine-, industrial and D.I.Y.-paints.
W'Kyd FC 555	55	special fatty acids	16	max. 10 (40 % in isoparaffin. HC 170-200) max. 15 (40 % in isoparaffin. HC 150-180)	max. 10 max. 10	70-100(40 % in isoparaffin. HC 170-200) 60-80 (40 % in isoparaffin. HC 150-180)	50 % in isoparaffin. HC 170-200 50 % in isoparaffin. HC 150-180	Fast drying, low odour and dearomatized radiator and d.i.y. paints with high gloss and good yellowing resistance.
W'Kyd S 351	51	soya oil	23	max. 10 (40 % in ws 180-210) max. 10 (40 % in isoparaffin. HC 170-200) max. 10 (40 % in dearomat. HC 180-220)	max. 15	80-100 (40 % in ws 180-210) 70-100 (40 % in isoparaffin. HC 170-200, DIN 6 cup) 25-35 (40 % in dearomat. HC 180-220)	50 % in ws 180-210 50 % in isoparaffin. HC 170-200 60 % in dearomat. HC 180-220	White undercoatings, mat and semi gloss enamels with good flow properties.
W'Kyd S 351 nv nv	51	soya oil	23	max. 10 (40 % in isoparaffin HC 170-200)	max. 15	25-35 (40 % in isoparaffin. HC 170-200)	60 % in isoparaffin HC 170-200	Undercoatings, silk gloss and mat enamels with good flow properties.



WorléeKyd - Alkyd Resins, solvent based, medium oil, airdrying

Type	Oil [%]	Oil type	Phth. anhyd. [%]	Colour DIN ISO 4630, Gardner	Acid value DIN EN ISO 3682 [mgKOH/g]	Flow time 20 °C DIN 53211-4 [s]	Forms of delivery	Main uses and principal characteristics
W'Kyd S 549	50	soya oil	27	max. 10 (40 % in ws 145-195) max. 10 (45 % in ws 135-175)	max. 15	50-65 (40 % in ws 145-195) 100-130 (45 % in ws 135-175)	55 % in ws 145-195 55 % in ws 135-175	Fast drying automotive and machinery refinishing enamels.
W'Kyd S 5101	51	soya oil	23	max. 10 (40 % in dearomat. HC 160-200)	max. 10	60-80 (40 % in dearomat. HC 160-200)	55 % in dearomat. HC 160-200	Airdrying fillers with intrinsic viscosity for brushing, primer surfacers and semi-gloss and mat paints.
W'Kyd SO 554	55	soya oil acid	15	max. 10 (40 % in isoparaffin. HC 170-200)	max. 10	70-100 (40 % in isoparaffin. HC 170-200)	55 % in isoparaffin. HC 170-200	Fast drying, low odour, dearomatized machinery ind. and d.i.y. paints.
W'Kyd V 162	41	special fatty acids	28	max. 10 (40 % in ws 145-195)	max. 20	40-70 (40 % in ws 145-195)	55 % in ws 145-195/ x	Extremely fast drying car refinishing, machinery and industrial paints with high gloss, good through drying.
V 162 nv				max. 10 (50 % in ws 135-175)	max. 10	130-150 (50 % in ws 135-175)	60 % in ws 135-175 (nv)	
W'Kyd V 543	50	special fatty acids	24	max. 10 (40 % in ws 145-195)	max. 15	50-70 (40 % in ws 145-195) 80-120 (40 % in ws 145-195)	55 % in ws 145-195/ x 55 % in ws 145-195	Fast drying car refinishing, machinery and industrial paints with high gloss, good through-drying.



WorléeKyd - Alkyd Resins, solvent based, long oil, airdrying

Type	Oil [%]	Oil type	Phth. anhyd. [%]	Colour DIN ISO 4630, Gardner	Acid value DIN EN ISO 3682 [mgKOH/g]	Flow time 20 °C DIN 53211-4 [s]	Forms of delivery	Main uses and principal characteristics
W'Kyd B 865	65	cotton/soya	22	max. 8 (50 % in ws 145-195)	max. 15	70-90 (50 % in ws 145-195)	60 % in ws 145-195	High quality house, decorative and d.i.y. paints with good flow, high gloss, good outdoor resistance.
B 865 nv				max. 8 (nv) (50 % in dearomat. HC 160-200)		40-50 (nv) (50 % in dearomat. HC 160-200)	65 % in dearomat. HC 160-200 (nv)	
W'Kyd B 868	68	vegetable fatty acid	21	max. 10 (50 % in dearomat. HC 160-200)	max. 15	20-40 (50 % in dearomat. HC 160-200)	70 % in dearomat. HC 160-200	High quality gloss paints, excellent brushability, gloss retention and good drying properties.
W'Kyd B 870	69	special fatty acids	21	max. 10 (60 % in ws 145-195) max. 10 (60 % in isoparaffin. HC 170-200) max. 10 (60 % in dearomat. HC 160-200) max. 10 (60 % in dearomat. HC 180-220)	max. 15	60-80 (60 % in ws 145-195) 90-130 (60 % in isoparaffin. HC 170-200) 60-80 (60 % in dearomat. HC 160-200) 100-125 (60 % in dearomat. HC 180-220)	75 % in ws 145-195 75 % in isoparaffin. HC 170-200 75 % in dearomat. HC 160-200 75 % in dearomat. HC 180-220	House paints with good brushability, high film build, good flow and excellent gloss retention.



Type	Oil [%]	Oil type	Phth anhyd. [%]	Colour DIN ISO 4630, Gardner	Acid value DIN EN ISO 3682 [mgKOH/g]	Flow time 20 °C DIN 53211-4 [s]	Forms of delivery	Main uses and principal characteristics
W'Kyd B 6301	64	special veg. fatty acids	19	max. 10 (70 % in dearomat. HC 180-220) max. 10 (70 % in dearomat. HC 160-200)	max. 18	80-120 (70 % in dearomat. HC 180-220) 60-80 (70 % in dearomat. HC 160-200)	90 % in dearomat. HC 180-220 98-100 %	Low viscous, air drying long oil alkyd resin for decorative and house paints, low VOC.
W'Kyd E 55	63	special fatty acids, urethane modified	17	max. 10 (60 % in ws 145-195) max. 10 (55% in dearomat. HC 160-200)	max. 10	200-300 (60 % in ws 145-195) 50 - 80 (55 % in dearomat. HC 160-200)	70 % in ws 145-195 70 % in dearomat. HC 160-200	In comb. with medium oil alkyds for high quality car repair finishes and industrial paints.
W'Kyd L 6300	63	linseed oil	25	max.10 (delivery form)	max. 10	7.000-10.000 mPa.s (del. form, 23°C, DIN 53015)	65 % in dearomat. HC 160-200	Anticorrosive, d.i.y. and house paints with high film build and good flow properties. Faster drying properties than L 6800.
W'Kyd L 6800	68	linseed oil	22	max.10 (50 % in dearomat. HC 160-200)	max. 10	4.500-6.000 mPa.s (del. form, 23°C, DIN 53015)	81 % in dearomat. HC 160-200	Anticorrosive,d.i.y. and house paints with high film build and good flow properties.
W'Kyd L 7904	79	linseed oil	18	max. 10 (delivery form)	max. 15	Viscosity: 8.000-10.000 mPa.s (20°C, Haake Rotovisko, C 35/1, D = 250 s ⁻¹)	approx. 100 %	High solid clear lacquers, wood glazings, and high solid primers.
W'Kyd L 8004	80	linseed oil		max. 10 (del. form)	max. 15	30-40 (70 % in dearomat. HC 160-200)	98-100 %	Very low viscous alkyd resin for wood impregnation and wood glazings.
W'Kyd P 151	64	special fatty acids	22	max. 10 (80 % in ws 145-195)	max. 10	130-190 (80 % in ws 145-195)	approx. 100 %	Very low viscous, for high conc. pigment preparations. Very good compatibility properties.
W'Kyd S 6400 hv	63	soya oil	26	max. 10 (50 % in dearomat. HC160-200) (50 % in dearomat. HC 180-220)	max. 12	120-150 (50 % in dearomat. HC 160-200) (50 % in dearomat. HC 180-220)	60 % in dearomat. HC 160-200 60 % in dearomat. HC 180-220	Consumer, decorative, d.i.y. and anticorrosive paints.
W'Kyd S 7304	73	soya oil	20	max. 8 (del.form)	max. 11	Viscosity: 47.000 - 55.000 mPa.s (20°C, Haake Rotovisko, C 35/1, D = 50 s ⁻¹)	approx. 100 %	Low viscous, air drying long oil alkyd resin for decorative and house paints, low VOC.
W'Kyd SC 965	65	special fatty acids	22	max. 10 (50 % in dearom. HC 180-220)	max. 15	35-50 (50 % in dearom. HC 180-220)	70 % in dearomat. HC 180-220	High quality house paints, very good brushability, flow and levelling, high gloss.
W'Kyd T 768	68	tall oil fatty acid	21	max. 10 (60 % in dearomat. HC 180-220)	max. 15	100-150 (60 % in dearomat. HC 180-220)	75 % in dearomat. HC 180-220	Long oil alkyd resin for house paints and anticorrosive coatings, primers and top coats.
W'Kyd SD 7003	70	special veg. fatty acids		max. 10 (60 % in de-aromat. HC 160-200)	max. 15	Viscosity: 4.000 - 12.000 mPa.s (20 °C, Rheometer, C 35/1°, 250 s ⁻¹)	85 % in de-aromat. HC 160-200	Low viscous, air drying, long oil alkyd resin for decorative and house paints, low VOC.
W'Kyd T 7800	78	special veg. fatty acids		max. 10 (70 % in de-aromat. HC 160-200)	max. 15	35-55 (70 % in dearomat. HC 160-200)	ca. 100 %	Low viscous, air drying, long oil alkyd resin for house paints, glazings, d.i.y. and anti-corrosive paints



WorléeKyd - Alkyd Resins, long oil, urethane modified

Type	Oil [%]	Oil type	Phth. anhyd. [%]	Colour DIN ISO 4630, Gardner	Acid value DIN EN ISO 3682 [mgKOH/g]	Flow time 20 °C DIN 53211-4 [s]	Forms of delivery	Main uses and principal characteristics
W'Kyd B 865 U	62	vegetable fatty acids	16	max. 10 (50 % in ws 145-195)	max. 10	70-100 (50 % in ws 145-195)	55 % in ws 145-195	Urethane modified, for wood varnishes, floor coatings and industrial primers and top coats.
				max. 10 (50 % in isoparaffin. HC 170-200)		80-100 (50 % in isoparaffin. HC 170-200)	55 % in isoparaffin. HC 170-200	
				max. 10 (50 % in dearomat. HC 180-220)		80-100 (50 % in dearomat. HC 180-220)	55 % in dearomat. HC 180-220	
				max. 10 (50 % in dearomat. HC160-200)		70-90 (50 % in dearomat. HC 160-200)	55 % in dearomat. HC 160-200	
W'Kyd B 865 U nv	62	vegetable fatty acids	16	max. 10 (50 % in dearomat. HC 180-220)	max. 10	45-60 (50 % in dearomat. HC 180-220)	60 % in dearomat. HC 180-220	Urethane modified, for wood varnishes, floor coatings and industrial primers and top coats.
W'Kyd S 5703	57	soya oil fatty acid	21	max. 8 (50 % in ws 145-195)	max. 10	Viscosity: 5.000-7.000 mPa.s (del.form, 20 °C, DIN 53015)	55 % in ws 145-195	Aliphatic urethane modified alkyd resin. Use as B 865 U with better yellowing resistance.
				max. 8 (50 % in dearomat. HC 160-200)		40-55 (45 % in dearomat. HC 160-200)	55 % in dearomat. HC 160-200	
W'Kyd S 6003	60	soya oil fatty acid	19	max. 10 (40 % in dearomat. HC 160-200)	max. 5	23-33 (40 % in dearomat. HC 160-200)	51 % in dearomat. HC 160-200	Use as B 865 U with faster drying and harder film properties.
			16	max. 10 (delivery form)		2.500-3.500 mPa.s (del. form, 20°C, DIN 53015)	50 % in isoparaffin. HC 150-180	
W'Kyd S 6003 hv	59	soya oil fatty acid	18	max. 10 (40 % in dearomat. HC 160-200)	max. 5	30-40 (40 % in dearomat. HC 160-200)	50 % in dearomat. HC 160-200	Use as S 6003 with even faster drying.
W'Kyd SD 6403	64	special fatty acids	12	max. 6 (45 % in dearomat. HC 160-200)	max. 10	55-80 (45 % in dearomat. HC 160-200)	55 % in dearomat. HC 160-200	Special urethane modified alkyd resin with good adhesion properties e.g. for renovation coatings on UV parquet sealers.
W'Kyd V 5241 U	81	linseed oil		max. 10 (delivery form)	max. 3	Viscosity: 10.000-15.000 mPa.s (del.form, 20°C, DIN 53015)	approx. 100 %	Low viscous, oil modified polyurethane for high solid environmentally friendly coating systems.

WorléeKyd - Alkyd Resins, solvent based, stoving/reactive/NC-combination



Type	Oil [%]	Oil type	Phth. anhyd. [%]	Colour DIN ISO 4630, Gardner	Acid value DIN EN ISO 3682 [mgKOH/g]	Flow time 20 °C DIN 53211-4 [s]	Forms of delivery	Main uses and principal characteristics
W'Kyd C 628	28	saturated fatty acids	47	max. 10 (50 % in x)	max. 15	40-60 (50 % in x)	70 % in xylene	High quality non yellowing stoving enamels, NC- and PU-coatings, colourless and pigmented. OH-cont. (on solids) 2,0-2,4 %.
W'Kyd C 632 M	32	specially mod. fatty acids	37	max. 10 (50 % in BAc)	max. 18	40-60 (50 % in BAc)	65 % in BAc	NC-lacquers with properties as acid curing systems but without formaldehyde. Aromatic free. Hydroxyl content (on solids) 2,7- 3,3 %.
W'Kyd C 640	38	saturated fatty acids	37	max. 10 (50 % in x)	max. 15	40-60 (50 % in x)	60 % in xylene	NC-lacquers with fast solvent release, good yellowing resistance and recoatability for paper and wood.
W'Kyd C 641	42	saturated fatty acids	32	max. 10 (50 % in x)	max. 15	24-30 (50 % in x)	70 % in xylene	High quality NC-lacquers and one component acid curing finishes with high film build and fast solvent release, for-wood, foil and paper.
W'Kyd C 743 hs	12	synthetic fatty acids	40	max. 10 (60 % in aromat. HC 155-180)	max. 20	40 - 60 (60 % in aromat. HC 155-180)	80 % in aromatic HC 155-180	High solids one component stoving paints with high reactivity and very good mechanical properties. OH-cont. (on solids) = 3,0-3,6%.
W'Kyd M 932	32	vegetable fatty acids	38	max. 10 (40 % in x)	max. 18	40-60 (40 % in x)	60 % in xylene	Stoving primers and topcoats with high reactivity and good mechanical properties. Excellent viscosity stability. Stoving cond. 100-140 °C.
W'Kyd RM 232	32	conjug. and saturated fatty acids	37	max. 10 (50 % in x)	max. 15	100-120 (50 % in x)	60 % in xylene	Stoving primers and topcoats with medium reactivity and good mechanical properties. Stoving conditions: 10 min. 160°C or 30 min. 130°C.
W'Kyd SH 380	38	special fatty acids	34	max. 10 (60 % in BAc)	max. 15	90-110 (60 % in BAc)	70 % in BAc 98/100	Acid catalysed finishes, fast curing with good elasticity and resistance, sufficient potlife. NC-compatible, isocyanate-curable.
W'Kyd SM 400	34	drying veg. fatty acids	30	max. 10 (50 % in x)	max. 20	90-110 (50 % in x)	60 % in xylene	In combination with amino resins for high reactive stoving primers and top coats.
W'Kyd SM 426	26	drying veg. fatty acids	40	max. 10 (50 % in x)	max. 15	90-110 (50 % in x)	60 % in xylene	In combination with amino resins for high reactive stoving primers and top coats.
W'Kyd T 36	36	tall oil	44	max. 10 (50 % in x)	max. 18	200-250 (50 % in x)	60 % in xylene	Acid curing finishes with high curing speed, good elasticity and sufficient pot-life. Reactive stoving enamels, curing with isocyanates possible.
W'Kyd T 735	36	tall oil	35	max. 10 (50 % in x)	max. 15	60-70 (50 % in x)	60 % in xylene	Stoving primers and topcoats with medium reactivity and good mechanical properties. Curing conditions: 10 min./160°C or 30 min./130°C.



WorléeThix - Alkyd Resins, Acrylic Resins, solvent based, thixotropic

Type	Oil [%]	Oil type	Phth. anhyd. [%]	Colour DIN ISO 4630, Gardner	Acid value DIN EN ISO 3682 [mgKOH/g]	Viscosity, 20°C at Dmax=391/s DIN 53018, part 1 [mPa·s]	Forms of delivery	Main uses and principal characteristics
W'Thix A 1420		2,0 % OH-content		approx. 1 (del.form)	max. 12	3.500-5.500	50 % in butyl acetate	Thixotropic, hydroxyfunctional pure acrylate for 2 component finishing lacquers.
W'Thix A 2125		2,5 % OH-content		max. 1 (del.form)	-	1.000-2.000	50 % in xylene	Thixotropic styrene acrylic for thick layer coatings and textured finishes.
W'Thix A 2242 W		4,2 % OH-content		max. 1 (del. form)	-	2.500-4.000	58 % in water/ BAc/EEP	Thixotropic water thinnable hydroxy acrylate for formulating high quality 2 component structure paints. As combination partner in aqueous 2 component top coats for improving antisagging properties.
W'Thix A 2313		1,3 % OH-content		approx. 1 (del.form)		4.000-5.000	60 % in aromat. HC 155-180	Thixotropic acrylic resin which can be crosslinked with isocyanates for air and forced drying industrial paints.
W'Thix D 46	40			max. 10 (del.form)	max. 4	2.000-3.500	50 % in xylene	Thixotropic epoxy ester, air- and oven drying, for primers, industrial- and top coats, zinc dust coatings. Thixotropy is not fully degraded by temperature and polar substances.
W'Thix L 8050	80	linseed oil fatty acid		max. 10 (del.form)	max. 15	thixotropic soft gel	100 %	Thixotropic, long oil alkyd resin, mostly used for wood glazings. Useable as sole binder as well.
W'Thix MH 439	39	special fatty acids	32	max. 10 (del.form)	max. 25	4.000-6.000	60 % in xylene	Thixotropic short oil alkyd for fast drying primers, topcoats and textured finishes. Thixotropy is not fully degraded by temperature and polar substances.
W'Thix S 2655	26	special fatty acids	40	max. 6 (del.form)	max. 15	11.000-15.000	60 % in xylene	Thixotropic fast drying short oil alkyd for primers, top and textured finishes, thick layer- and stoving systems. Thixotropy is not fully degraded by temperature and polar substances.
W'Thix S 6357	64	soya oil	24	max. 6 (del.form)	max. 15	500-1.000 800-12.000 800-13.000	40 % in ws 180-210 40 % in dearomat. HC 180-220 45 % in dearomat. HC 180-220	Thixotropic long oil alkyd resin. Combination resin for house paints, wood glazings/thicklayer. Thixotropy is not fully degraded by temperature and polar substances.
W'Thix S 6358	64	soya oil	24	max. 6 (del.form)	max. 15	thixotropic, soft gel	50 % in dearomat. HC 180-220	Pumpable thixotropic long oil alkyd combination resin for building paints, wood glazings, thick layer. Thixotropy is not totally degradable by temperature and polar solvents.
W'Thix S 6455	64	soya oil fatty acid	25	max. 6 (del.form)	max. 15	thixotropic, strong gel	50 % in ws 145-195	Strong thixotropic long oil alkyd for thick layer coatings, wood glazings and clear coatings. Temperature stable and resistant against polar solvents.
W'Thix SD 6051	60	special fatty acids	23	max. 10 (del.form.)	max. 15	2.500-4.000 3.000-4.500	55 % in dearomat. HC 160-200 55 % in dearomat. HC 180-220	As V 747, but with improved resistance against polar substances.
W'Thix 670 hs	61	special mixed fatty acid	21	max. 10 (del.form)	max. 15	thixotropic gel	70 % in dearomat. HC 160-200	Thixotropic long oil alkyd for primers, fillers, gloss and silk gloss coatings, low VOC.

WorléeThix - Alkyd Resins, Acrylic Resins, solvent based, thixotropic



Type	Oil [%]	Oil type	Phth. anhyd. [%]	Colour DIN ISO 4630, Gardner	Acid value DIN EN ISO 3682 [mgKOH/g]	Viscosity, 20°C at Dmax=391/s DIN 53018, part 1 [mPa.s]	Forms of delivery	Main uses and principal characteristics
W'Thix V 727	63	special mixed fatty acids	23	max. 10 (del. form)	max. 15	3000-4000 (52% in ws 180-210) 4000-6000 (52% in isoparaffin. HC 170-200) 4.200-4.800 (52% in dearomat. HC 180-220)	52 % in ws 180-210 52 % in isoparaffin. HC 170-200 52 % in dearomat. HC 180-220	Thixotropic long oil alkyd for semi gloss house paints, primers, wood stains and anticorrosive paints.
W'Thix V 747	64	special fatty acids	23	max. 7 (del. form)	max. 15	5000-7000 (52% in isoparaffin. HC 170-200) 5000-7000 (52% dearomat. HC 180-220)	52 % in isoparaffin. HC 170-200 52 % in dearomat. HC 180-220	Thixotropic long oil alkyd for primers, mat wall and silk gloss paints and thixotropic glossy decorative and protective house paints.
W'Thix V 800	62	special fatty acids	18	max. 10 (del. form) max. 6 (del. form)	max. 10	1000-2000 250-450	50 % in dearomat. HC 160-200 40 % in isoparaffin. HC 170-200	Thixotropic, urethane modified long oil alkyd for thick layer coatings, wood glazings and lacquers. Temperature stable and resistant against polar solvents.

WorléeSol E

WorléeSol - PU modified Alkyd Emulsions, water thinnable



Type	Oil [%]	Acid value DIN EN ISO 3682 [mgKOH/g]	pH-value DIN 53785	Viscosity 20°C, del. form Brookfield, ISO 2555 [mPa.s]	Forms of delivery	Main uses and principal characteristics
W'Sol E 150 W	44	max. 30	7,0-8,0	50-1.500	40 % in water	Medium oil alkyd emulsion for high gloss decorative and DIY paints
W'Sol E 280 W	28	20-30	6,9-7,2	max. 10.000 mPa.s	38 % in water co-solvent free	Short oil coconut modified alkyd emulsion for non-yellowing paint systems.
W'Sol E 330 W	33	15-20	7,5-8,5	max. 10.000	42 % in water	Short oil alkyd emulsion for drier-free based anticorrosive primers and top coats.
W'Sol E 440 W	44	max. 30	7,0-8,0	50-1.500	40 % in water/BG	Medium oil alkyd emulsion for high gloss air drying top coats with early water resistance.
W'Sol E 530 W	53	max. 38	7,0-8,5	max. 10.000	30 % in water	Medium oil alkyd emulsion for fast drying wood paints and lacquers.
W'Sol E 927 W	28	max. 30	6,8-7,5	max. 10.000	40 % in water	Short oil alkyd emulsion for fast curing wood coatings of all types (also drier-free).
W'Sol SE 420 W	42	max. 30	7,0-8,5	max. 5.000	40 % in water	Medium oil silicone modified alkyd emulsion for high gloss paint systems (also decorative) with excellent outdoor resistance.

WorléeSol NW

WorléeSol – Alkyd Emulsions, water soluble



Type	Oil [%]	Colour DIN ISO 4630, Gardner	Acid value DIN EN ISO 3682 [mgKOH/g]	Density DIN 51757 [g/cm³]	Viscosity 20°C, del. form Brookfield, ISO 2555 [mPa.s]	Forms of delivery	Main uses and principal characteristics
W'Sol NW 474	74			1,013	max. 1.500	60 % in water	Amine and co-solvent free alkyd emulsion for wood impregnations and wood protecting paints. Also suitable as a co-binder to improve open time and filling properties of decorative paints.



WorléeSol - Alkyd Resins, water thinnable, airdrying and low bake

Type	Oil [%]	Colour DIN ISO 4630, Gardner	Acid value DIN EN ISO 3682 [mgKOH/g]	Density DIN 51757 [g/cm ³]	Flow time 20 °C DIN 53211-4 [s]	Forms of delivery	Main uses and principal characteristics
W'Sol 07 A	37	max. 10 (50 % in BG)	35-45	1,03	80-140 (50 % in BG)	75 % in BG + sec. butanol 1:1	Air drying and low bake industrial primers and topcoats. Low viscous, very fast dust free drying, early water resistance.
W'Sol 22 A	52	max. 10 (50 % in BG)	48-58	1,02	60-90 (50 % in BG)	80 % in BG + sec. butanol	Water soluble binder for outdoor resistant wood coatings especially in combination with W'Sol 31.
W'Sol 30	pH 4-5 (50 % in wv)	max. 15	max. 20	1,02	50-100 (85 % in BG)	100 %	Water soluble modified linseed oil type. Readily reducible with water, for printing inks, as additive for latex paints, tinting and artist colours and pigment pastes.
W'Sol 31 A 31 C	90 pH 7,5- 8,5	max. 10 (del.form)	85-105	1,00	120-200 (del.form)	45 % in water + BG 8:2 (31 A) 45 % in water/ Dowanol PnB 8:2 (31 C)	Water dispersible linseed oil polymer. Readily reducible with water for in- and outdoor stains and wood preservatives. Extremely good penetration and outdoor resistance.
W'Sol AC 35	58			1,02	2.000-10.000 m.Pas (DIN EN ISO 2555, 23°C, Brookfield)	38 % in water / dipropylen-glycol mono methylether / ethoxypropanol 58:2:2	Long oil acrylic modified alkyd resin for wood protective stains, preservatives and top coats.
W'Sol 37	90 pH 7,5- 8,5	max. 15	55-80	0,998	ca. 230	59 % in water + BG 80:20	Water thinnable linseed oil polymer for wood protecting systems. Excellent penetration, good weather resistance and paint stability (also at low solid content).
W'Sol 61 A 61 F 61 P	30	max. 10 (50 % in BG) max. 10 (50 % in Do- wanol PnB) max. 10 (del. Form)	35-45 (61 A) 40-50 (61 F) 35-45 61 P)	1,06 1,05 1,06	70-90 (50 % in BG) 70-90 (50 % in Dowanol PnB) 6.000-20000 m.Pas (del. form, Brookfield)	75 % in BG + sec. butanol 1:1 (61 A) 70 % in Dowanol PnB (61 F) 60 % in water/BG/ sec. butanol	Air drying and low bake industrial primers and top coats, very fast drying, excellent corrosion resistance. 61 version fully neutralized with ammonia.
W'Sol 64 E	30	max. 10 (50 % in BG)	35-45	1,06	50-70 (50 % in BG)	75 % in ethoxy propanol	For air drying and low bake industrial primers and top coats, very fast drying, good corrosion resistance.
W'Sol 65 A 65 E	30	max. 10 (45 % in BG) max. 10 (45 % in BG)	30-40 30-40	1,05 1,05	50-70 (45 % in BG) 30-60 (45 % in BG)	70 % in BG + sec. butanol + Dowanol PnB 70 % in ethoxy propanol	Air drying and low bake industrial primers and topcoats, very fast drying, early water resistance, suitable for agricultural machinery paints.
W'Sol 68 A	32	max. 10 (50 % in BG)	35-45	1,07	50-100 (50 % in BG)	75 % in BG	Silicone modified alkyd resin for air drying and stoving systems with excellent weather, heat and humidity resistance.



WorléeSol - Alkyd Resins, water thinnable, for stoving systems

Type	Oil [%]	Colour DIN ISO 4630, Gardner	pH-value DIN 53785	Density DIN 51757 [g/cm ³]	Viscosity 25°C, del.form Brookfield, ISO 2555 [mPa·s]	Forms of delivery	Main uses and principal characteristics
W'Sol 84 C	30	max. 10 (del.form)	6,7-8,5	1,06	4.000-20.000	44 % in water + BG (1,0 %) (DMEA-neutr.)	For waterborne stov. systems, high gloss, good mechanical properties, total cosolvent content < 1 %.
W'Sol 85 A	30	max. 10 (del.form)	6,7-8,5	1,06	6.000-20.000	43 % in water + BG (5,5 %) (DMEA-neutr.)	As WorléeSol 84, but more reactive.

WorléePol - Polyester, water thinnable, oil free, saturated



Type	Acid value DIN EN ISO 3682 [mgKOH/g]	Colour DIN ISO 4630, Gardner	OH-content on solids [%]	Density DIN 51757 [g/cm ³]	Viscosity 20 °C, del.form * Brookfield, ISO 2555 ** DIN 53015 [mPa·s]	Forms of delivery	Main uses and principal characteristics
W'Pol 191	45-60	max. 10 (50 % in BG)	approx. 4,3	1,10	45-70 s (50 % in BG, DIN 53211-4/ 20 °C)	80 % in BG	Branched saturated polyester resin for waterborne industrial stoving systems.
W'Pol 194		clear to slightly opaque		1,075	< 20.000 *	40 % in water + BG (2,1%)	Branched saturated polyester resin for waterborne stoving primers, fillers and top coats with low voc. pH =7,5-8,5, very reactive.
W'Pol 808	max. 25	max. 3 (del.form)	approx. 7	1,20	15.000-25.000** (25 °C)	100 %	Low viscous, with high reactivity. For amine free water based stoving paints on metal, aluminium foil, paper and plastics. Also suitable for printing inks.
W'Pol V 450	max. 15	max. 3 (del.form)	approx. 8,5	1,18	500-700** (25 °C)	90 % in water	Similar to WorléePol 808 but higher reactivity, better stability, higher water tolerance and lower viscosity. Also suitable for printing inks.

WorléePol - Polyester/ether-polyols, solvent free, saturated



Type	Viscosity 23°C, del.form DIN 53015 [mPa·s]	OH-value DIN EN ISO 4629 [mgKOH/g]	Acid value DIN EN ISO 3682 [mgKOH/g]	Water content DIN 51777, part 1 Karl Fischer [%]	Main uses and principal characteristics
W'Pol 165	3.000-4.000	150-170	max. 2	max. 0,2	WorléePol 165 is a low viscous and solvent free branched polyol with ester and ether groups and is mainly used for the formulation of solvent free coatings, sealings and adhesives in combination with modified polyisocyanates.
W'Pol 230	2.500-3.500	220-240	max. 2	max. 0,2	WorléePol 230 is a low viscous and solvent free branched polyol with ester and ether groups and is mainly used for the formulation of solvent free coatings, sealings and adhesives in combination with modified polyisocyanates.
W'Pol 1181/03	2.000-3.000 (25°C)	320-340	max. 2	max. 0,1	Saturated low viscous polyester resin, due to its wide compatibility suitable for various systems, e.g. as modifying component for solvent and water based isocyanate and amino resin crosslinking coatings to improve flexibility, flow, chemical and mechanical resistance and to increase solids content. Corresponds to FDA § 175.300.
W'Pol 1181/09	1.500-3.000 (25°C)	310-350	max. 2	max. 0,1	Saturated low viscous polyester resin, due to its wide compatibility suitable for various systems, e.g. as modifying component for solvent and water based isocyanate and amino resin crosslinking coatings to improve flexibility, flow, chemical and mechanical resistance and to increase solids content. Excellent weather resistance.

WorléePol - Polyester, solvent based, saturated



Type	OH-content on solids [%]	Flow time 20 °C DIN 53211-4 [s]	Acid value DIN EN ISO 3682 [mgKOH/g]	Colour DIN ISO 4630, Gardner	Forms of delivery	Main uses and principal characteristics
W'Pol 6631	approx. 8,0	20.000-30.000 mPa·s (del.form, Brookfield, ISO 2555)	max. 3	max. 3	67 % in methoxy propyl acetate	Saturated, fatty acid modified type for air drying 2 pack PU coatings.
W'Pol 6741	approx. 4,1	10.000-20.000 mPa·s (del.form, Brookfield, ISO 2555)		max. 2	80% in BAc	W'Pol 6741 is a saturated, hydroxy functional polyester resin for the manufacture of solvent based „ultra high solids“ 2 component PUR systems.
W'Pol 6756	approx. 5,6	20.000-50.000 mPa·s (del.form, Brookfield, ISO 2555)		max. 2	78% in BAc	W'Pol 6756 is a saturated, hydroxy functional polyester resin for the manufacture of solvent based „ultra high solids“ 2 component PUR systems for industrial and car repair coatings with good mechanical properties and excellent chemical and weather resistance.



WorléeDur - Epoxy Esters, drying

Type	Oil [%]	Oil type	EP-Resin [%]	Colour DIN ISO 4630, Gardner	Acid value DIN EN ISO 3682 [mgKOH/g]	Flow time 20 °C DIN 53211-4 [s]	Forms of delivery	Main uses and principal characteristics
W'Dur D 46	40	conj. fatty acids	60	max. 10 (50 % in x)	max. 4	200-250 (50 % in x)	60 % in xylene	High quality zinc rich and anti corrosive paints, airdrying and stoving primers and top coats, fast drying and excellent water resistance.
W'Dur MF 45	40	tall oil/tung oil	60	max. 20 (50 % in x)	max. 6	200-250 (50 % in x)	60 % in xylene	Zinc rich and anti corrosive paints with excellent water resistant and rust preventing, good brushability.
W'Dur D 6311	63	special modified		max. 10 (del.form)	max. 2	3.000-4.000 mPa-s (del.form, 20°C, DIN 53015)	60 % in dearomat. HC 140-165 60 % in ws 145-195	Universal adhesion and anti corrosion primer and one coat paints. Very good adhesion even on difficult substrates.



WorléeDur - Special Hardeners for epoxy resins

Type	H-Equivalent	Viscosity 20°C, del.form DIN 53015 [mPa-s]	Amine value DIN 53176 [mgKOH/g]	Colour DIN ISO 4630, Gardner	Medium potlife	Main uses and principal characteristics
W'Dur H 43	115	250-450	300 ± 50	max. 2 (del. form)	ca. 50 min.	Modified cycloaliphatic polyamine adduct for self-levelling floorings, good levelling properties, low carbamation.
W'Dur H 60	90	50-100	400 ± 50	max. 2 (del. form)	ca. 25 min.	Modified polycondensated polyamine system for self-levelling floorings, very good levelling and deairating properties, tough and resilient.
W'Dur H 86 W	86	3.000-5.000	330 ± 50	max. 2 (del. form)	ca. 30 min.	Hardener for sealings and self-levelling floorings.
W'Dur H 90	90	175-325	375 ± 50	max. 4 (del. form)	ca. 40 min.	Modified cycloaliphatic polyamine adduct for self-levelling floorings, good levelling properties, low carbamation.
W'Dur H 100	50	300-600	700 ± 75	max. 2 (del. form)	ca. 50 min.	Polycondensated polyamine free of benzylic alcohol. Special hardener system to modify standard hardeners.
W'Dur H 380 M	380	8.000-12.000 (Brookfield, ISO 2555)	190 ± 30	max. 2 (del. form)	ca. 6 h	Aliphatic polyamine adduct 55% in xylene/isobutanol for solvent based epoxy primers and top coats.

WorléeSin - Rosin based maleic resins and rosin esters



Type	Melting point Capillary method [°C]	Acid value DIN EN ISO 3682 [mgKOH/g]	Flow time 20 °C DIN 53211-4 [s]	Colour DIN ISO 4630, Gardner	Main uses and principal characteristics
W'Sin GM 201	95-120	20 -25	25-50 (50 % in ws 145-195)	max. 8 (50 % in ws 145-195)	General purpose resin for modification of oil, alkyds and paints based up on them. As a cold cut or to be polymerised with oils and alkyds.
W'Sin GM 203	100-125	20-25	25-50 (50 % in ws 145-195)	max. 8 (50 % in ws 145-195)	General purpose resin for oil and alkyd based paints and for NC-lacquers. For modification of oil and paints based up on them. As a cold cut or to be polymerised with oils and alkyds.
W'Sin PM 200	95-115	15-25	20-40 (50 % in ws 145-195)	max. 8 (50 % in ws 145-195)	Low viscosity penta esterified resin for gloss improvement for house and industrial paints and dispersing media for pigment pastes and preparations.
W'Sin PM 202	100-125	15-20	30-60 (50 % in ws 145-195)	max. 8 (50 % in ws 145-195)	Penta esterified general purpose resin for decorative, do-it-yourself and industrial paints. Also used for furniture adhesives.
W'Sin MK 223	90-110	40-50	80-120 (60 % in BAc)	max. 8 (60 % in BAc)	With castor oil plasticized, for NC-lacquers with very good solvent release and sandability.
W'Sin MS 235	125-155	180-200	10-20 (50 % in ethanol)	max. 15 (50 % in ethanol)	For alcohol and water based paints and lacquers, flexo and gravure inks, overprint varnishes. Compatible with acrylic polymers and NC. Soluble in water after neutralisation. FDA 175.105, 175.300
W'Sin MS 265	155-190	190-220	15-25 (50% in ethanol)	max. 8	For alcohol and water based paints and lacquers, flexo and gravure inks, overprint varnishes. Compatible with acrylic polymers and NC. Soluble in water after neutralization. FDA 175.105, 175.300
W'Sin MS 270	145-165	190 - 210	110 - 130 (60 % in ethanol)	< 15	For alcohol and water based paints and lacquers, flexo and gravure inks. Overprint varnishes. Compatible with acrylic polymers, NC and ethyl cellulose. Also soluble in aromatic solvents. Soluble in water after neutralization. High viscous maleic resin for fast drying corrugated board inks and overprint varnishes. FDA 175.105, 175.300

WorléeFen

WorléeFen - Rosin based hard resins, phenol modified



Type	Melting point Capillary method [°C]	Acid value DIN EN ISO 3682 [mgKOH/g]	Flow time 20 °C DIN 53211-4 [s]	Colour DIN ISO 4630, Gardner	M.O.T. [%]	Main uses and principal characteristics
W'Fen F 105	90-110	15-25	20-30 (50 % in ws 145-195)	max. 10 (50 % in ws 145-195)	300	General purpose type for alkyd based paints and primers. Low viscous resin giving excellent gloss and rub resistance on cold set inks.
W'Fen F 120	110-130	10-20	80-120 (50 % in ws 145-195)	max. 10 (50 % in ws 145-195)	225	General purpose type for alkyd based paints and primers and for cooking with alkyds. Fast setting, high gloss resin for sheetfed inks. Compatible with alkyds and natural inks.
W'Fen F 130	120-140	15-25	120-170 (60 % in x)	max. 10 (60 % in x)		Cold cut modifying resin for paints with good drying properties and high gloss.



WorléeAdd / Resiflow - Additives for paints and lacquers

Type	Appearance	Forms of delivery	Addition (calc. on total form.)	Main uses and principal characteristics
W'Add 100	colourless, high viscous liquid	min. 98 %	0,1-1,0 %	Polymeric, silicone free flow control agent for solvent based and solvent free coatings, UV-resistant, good recoatability, avoids surface imperfections. Corresponds to FDA § 175.300.
W'Add 101	colourless, high viscous liquid	min. 98 %	0,1-1,0 %	Silicone free acrylic flow control agent for solvent based and free coatings and printing inks of different composition. Avoids also surface imperfections. Corresponds to FDA § 175.300.
W'Add 311, 10 % W'Add 311, 30 %	clear to slightly turbid, low viscous liquids	10 % in xylene 30 % in xylene	0,1-1,0 % 0,03-0,3 %	Silicone based, for paints, lacquers and leather finishes. Improve mar resistance, slip, flow, gloss, reduce foaming, pinholing and orange peel.
W'Add 312	clear, low viscous liquid	10 % in isoparaffin. HC 170-200	0,1-1,0 %	Silicone based additive, especially for decorative paints. Eliminates cell structure and brush marks, improves flow, mar resistance and slip. Specially designed for aromatic free decorative paints.
W'Add 315	colourless liquid	10 % in iso-propanol	0,5-1,0 %	Silicone based additive, for water and solvent based paints, improving mar resistance and slip, flow and gloss.
W'Add 317	transparent yellowish liquid	100 %	0,01-0,3 %	Silicone based additive, for solvent based coatings, improves deairing, levelling, mar resistance, slip and gloss, reduces orange peel and cratering. Also suitable for curtain coatings. Thermostable in stoving systems.
W'Add 327	clear, low viscous liquid	20 % in iso-propanol	0,1-1,5 %	Silicone based, mainly for water thinnable lacquers and paints, improves wetting of plastic and aluminium substrates, increases mar resistance and slip, avoids cratering.
W'Add 330 W'Add 333	clear, low viscous liquids	10 % in butyl glycol 10 % in water	0,3-0,5 % 0,3-0,5 %	Silicone based, reduce surface tension of water thinnable systems, improve levelling, reduce edge pulling, eliminate surface imperfections.
W'Add 340	clear to slightly hazy, yellowish liquid	100 %	0,1-1,0 %	Especially modified silicone polyether for substrate wetting of aqueous systems on difficult substrates.
W'Add 345	clear to slightly turbid yellowish liquid	71 % in solvent blend/water	0,3-1,5 %	Special modified silicone polyether for aqueous systems for improving substrate wetting and penetration on absorbent substrates.
W'Add 342	clear to slightly hazy, yellow coloured liquid	60 % in dipropylene glycol monomethyl ether	0,1-1,0 %	Excellent substrate wetting additive for aqueous systems, reduces surface tension, low tendency to stabilize foam.
W'Add 351	turby, creamy liquid	70 % in water / butyl glycol	0,5-1,0 %	High molecular silicone additive to improve slip, mar resistance and antiblocking, for aqueous systems.
W'Add 352	turby, creamy liquid	70 % in water / 1,2-propylen glycol	0,5-3,0 %	High molecular silicone additive to improve slip, mar resistance and antiblocking, for aqueous systems.
W'Add 355	milky liquid	40 % in water	0,3-2,0 %	Silicone emulsion, improves substrate wetting, flow, smoothness, mar resistance and water resistance.
W'Add 356	colourless liquid	30 % in xylene	0,2-1,0 %	Silicone based additive, for solvent based coatings, improves deairing, levelling, mar resistance, slip and gloss, reduces orange peel and cratering. Also suitable for curtain coatings. Thermostable in stoving systems.
W'Add 374	opaque liquid	60 % in water	0,3-2,0 %	Non-ionic silicone emulsion used for achieving water repellency.
W'Add 380 F	clear, brown liquid	30 % in water	0,01-0,2 %	Anionic fluorinate additive for aqueous coatings. Strong reduction of surface tension, considerably improving substrate wetting and flow.
W'Add 386 F	clear to slightly turbid liquid	10 % in water/Dowanol PnB/iso-propanol	0,01-0,2 %	Anionic fluorinate additive for aqueous coatings. Strong reduction of surface tension, considerably improving substrate wetting and flow.
W'Add 410 N	clear to slightly turbid liquid		0,5-2,0 %	Viscosity stabilizer, anti skinning and anti-gelling agent for solvent based air drying and stoving paints.
W'Add 411 N	clear to slightly turbid liquid		0,5-2,0 %	Like WorléeAdd 410 N, but aromatic free.
W'Add 412	transparent liquid	65 % in water	0,5-1,0 %	Solvent free compatibility agent for easier incorporation of driers into water based alkyd emulsion paints.
W'Add 422	slightly yellowish liquid	50 % in iso-propanol / methoxy propanol	0,2-0,8 %	Cationic surface active additive for increasing the conductivity of electrostatic sprayable paint systems, low addition.
W'Add 425	clear, yellowish liquid	51 % in solvent blend	0,2-1,5 %	Silicone free additive, imparts an equal structure to coil coatings which contains wax. Improves degassing, reduces popping, also for clear coats.
W'Add 428	clear liquid	10 % in solvent blend	3,0-6,0 %	Silicone free additive for structured coil coatings without wax addition, for achieving orange peel effect. Improves degassing.
W'Add 429	colourless liquid	10 %	0,5-1,5 %	For improving the efficiency of matting agents in solvent based silk gloss decorative paints. Additionally improvement of flow and scratch resistance, deairing.
W'Add 458	colourless liquid	38 % in water	0,2-2,0%	Nitrit-free anti-flash rust agent for aqueous paints and lacquers.

WorléeAdd / Resiflow - Additives for paints and lacquers



Type	Appearance	Forms of delivery	Addition (calc. on total form.)	Main uses and principal characteristics
W'Add 459	colourless liquid	29 % in water	0,5-3,0 %	Nitrit-free anti-flash rust agent and corrosion inhibitor for aqueous paints and lacquers.
W'Add 480	colourless to light yellow liquid	70 %	2,0-5,0 %	Special modified resin for improving adhesion on aqueous stoving and 2 component paints, especially base coats on metal substrates.
W'Add 483	colourless to light yellow liquid	76 %	1,0-3,0 %	Special polyester resin for improving adhesion of solvent based 2 component PU and stoving paints on metals substrates. Improves elasticity and flow. Corresponds to FDA § 175.300
W'Add 486	colourless to yellowish liquid	75 % in solvent blend	1,0-3,0 %	Special adhesion promoter for solvent based systems for air drying and oven cured systems.
W'Add 575	clear liquid	33 % in aromatic HC 155-180	0,5-3,0 %	Blocked catalyst for solvent based and aqueous isocyanate crosslinking systems. Deblocking at 60 °C.
W'Add 700	milky liquid	60 % in water	2,0-5,0 %	Silicone based, for aqueous systems to increase water resistance, gloss, adhesion and weather resistance. Best effect after more than 16 hours of addition into the ready made product.
W'Add 710	colourless, clear to slightly turbid liquid	50 % aliphatic HC and iso-propanol	0,5-2,0 %	Amino functional polydimethyl siloxane used in leather coatings, leather care products and car polishes. Improves resistance, smoothness and polishing ability. For solvent based as well as aqueous systems.
W'Add 720	colourless, clear to slightly turbid liquid	50% in solvent mixture	1,5-3,0 %	Special modified polydimethyl siloxane for the manufacture of aqueous and solvent based antrigraffiti coatings.
W'Add 781	clear, medium viscous liquid	solvent free	0,08-2,0 %	Silicone free additive for solvent based, solvent free and water based systems to improve levelling, flexibility and adhesion. 2 component-PUR-coatings of high film thickness show reduced blistering.
W'Add 1400	clear to slightly turbid liquid	100 %	0,5-1,0 %	Silicone based additive for water thinnable and solvent based coatings and printing inks including UV-curing systems to improve deairing, flow out, levelling, gloss, slip, mar resistance and to eliminate cratering and orange peel.
W'Add 1500	viscous liquid	100 %	0,2-2,0 %	Silicone based additive for solvent based coatings and inks to increase abrasion resistance, smoothness and anti-blocking. FDA 175.300 approved. Corresponds to FDA § 175.300.
W'Add 2000	clear, yellowish liquid	30 % in BAc/polyglycol	0,5-1,2 %	Catalyst for solvent based and aqueous isocyanate crosslinking systems.
W'Add 2030	clear, amber coloured liquid	30 % in iso-butanol/ MPA	0,4-2,0 %	Catalyst for solvent and water based stoving finishes. Improves water, salt spray and detergent resistance.
W'Add CC 237	clear, yellowish liquid	100 %	0,2-2,0 %	Polymeric silicone free flow control agent for solvent based coil coatings. Reactive, normally therefore no negative influence on hardness, MEK-resistance and intercoat adhesion.
W'Add V 832	transparent liquid	18 % +/- 1 in xylene / MPA	0,5-2,0 %	Silicone based additive mainly for isocyanate cured lacquers and paints based on polyester and acrylic resins.
Resiflow FK 70	colourless liquid	70 % in PGME	0,3-2,0 %	Silicone free anti-floating and flow control agent e.g. for polyester/melamine resin based stoving paints. Eliminates craters, pinholes and fisheyes. Corresponds to FDA § 175.300 and AP (2004) 1.
Resiflow FL 2	colourless, high viscous liquid	min. 98 %	0,2-2,0 %	Silicone free acrylic flow control agent for solvent based and solvent free coatings based on alkyd, polyester, acrylic, vinyl, epoxy and polyurethane resin. Corresponds to FDA § 175.300 and AP (2004) 1.
Resiflow FL 9	colourless, high viscous liquid	min. 98 %	0,2-1,5 %	As Resiflow FL 2, but often better compatibility.
Resiflow FM 4 FM 4-50	colourless, high viscous liquid	min. 98 % 50 % in xylene	0,2-2,0 % 0,4-4,0%	As Resiflow FL 2, but with improved efficiency. Corresponds to FDA § 175.300 and AP (2004) 1.
Resiflow LH-240	viscous liquid	min. 98 %	0,2-1,5 %	Flow control and degassing additive for solvent based and solvent free formulations of different composition, including gel coats.



WorléeAdd / Resiflow - Additives for paints and lacquers

Type	Appearance	Forms of delivery	Addition (calc. on total form.)	Main uses and principal characteristics
Resiflow LH 241	clear, viscous liquid	min. 98,5 %	0,2-2,0 %	Silicone free acrylic flow control agent for solvent based and solvent free coatings based on alkyd, polyester, acrylic, epoxy, polyurethane resins etc.. Excellent compatibility, especially suitable for clear coats.
Resiflow LW	colourless - slightly yellow, low viscous liquid	min. 98,5 %	0,2-1,5 %	Silicone free acrylic flow control agent for solvent based and solvent free coatings, similar to Resiflow FL 2 but lower in viscosity.
Resiflow W 51	colourless, medium viscous liquid	50 % in butyl glycol / iso-propanol	0,5-3,0 %	Silicone free acrylic flow control agent for mainly water based coating systems as well as solvent based stoving systems (very good compatibility). Effective pigment wetting agent. Corresponds to FDA § FDA § 175.105, 175.300 and AP (2004) 1.
Resiflow W 52	colourless, medium viscous liquid	50 % in butyl glycol / iso-propanol	0,5-3,0 %	Silicone free acrylic flow control agent for mainly water based coating systems as well as solvent based stoving systems (very good compatibility). Effective pigment wetting agent. Corresponds to FDA § 175.105 and AP (2004) 1.
Resiflow W 5200	colourless, high viscous liquid	min. 96 %	0,2-1,5 %	Silicone free polymer flow control agent, especially for aqueous coatings but also for solvent based systems.
Resiflow UV-10	colourless, high viscous liquid	min. 98 %	0,1-3,0 %	Silicone free acrylic flow control agent for UV curing as well as solvent based coatings and printing inks. Improves also substrate wetting and deairing, avoids surface imperfections. Often synergistic effects in combination with silicone additives.

Special-Primer



Special-Primer - Adhesion promoters

Type	Appearance	Forms of delivery	Application	Main uses and principal characteristics
Special-Primer AP 1010	white (pigmented)	4 % in xylene	undiluted: spraying, dipping, rolling, printing	Adhesion promoter for EPDM, PP and blends of these as used for the automotive industry for spoilers, bumpers, dashboards etc. for subsequent painting, printing and sticking. Special-Primer AP 1010 can be used in aerosol cans.
Special-Primer AP 1030	white (pigmented)	4 % in xylene	undiluted: spraying, dipping, flow coating, rolling, printing	Adhesion promoter for EPDM, PP and blends of these as used for the automotive industry for spoilers, bumpers, dashboards etc. for subsequent painting, printing, sticking and coating.
Special-Primer PE 6800	colourless-yellowish, clear	5 % in xylene	application as 2.5 % solution	Adhesion promoter for untreated polyethylene for subsequent coating or printing.
Special-Primer PP 3200 W	low viscous, beige cream coloured liquid	30 % in water	application diluted with water to 10 % solids content by spraying, dipping or printing.	Aqueous adhesion promoter based on especially modified, low chlorinated polypropylene for PP, polyolefinic blends and with restrictions for PE.
Special-Primer PP 4400 W	brownish, turbid liquid	40 % in water	application diluted with water to 10 % solids content by spraying, dipping or printing.	Chlorine-free primer and adhesion promoter based on special modified polypropylene used for polypropylene and polyolefinic blends.
Special-Primer PP 5130	colourless-yellowish, clear	2,5 % in xylene 5,0 % in xylene	application as 2.5 % solution	Adhesion promoter for untreated polypropylene for subsequent painting, printing, sticking. Batteries, packaging film, heels, toys, foils etc..
Special-Primer PP 7550	colourless-yellowish, clear	5 % in xylene	application as 2.5 % solution	Same as PP 5130, with improved adhesion promotion on different PP substrates and aluminium.
Special-Primer PP 7560	colourless-yellowish, clear	10 % in xylene	application as 2.5% solution	Same as PP 5130, with improved adhesion promotion on different PP substrates and aluminium.
Special-Primer PP 7580	colourless-yellowish, clear	2,5 % in xylene	application as 2.5 % solution	Adhesion promoter for untreated polypropylene for subsequent painting, printing, sticking. For batteries, heels, toys, foils, garden furniture etc.. Best adhesion properties.
Special-Primer PP 8100	clear to slightly turbid, yellowish liquid	10 % in xylene	usually undiluted: spraying, dipping etc.	Chlorine-free primer, especially for polypropylene, PP/EPDM and thermoplastic rubber.
Special-Primer PP 8200	clear to slightly turbid, yellowish liquid	10 % in xylene	usually undiluted: spraying, dipping, etc.	Chlorine-free primer, especially for polypropylene, PP/EPDM and thermoplastic rubber as well as aluminium. Very elastic.

WorléeAdd - Defoamers for water based systems



Type	Appearance	Activity	Density DIN 51757 [g/cm³]	Addition (calc. on total form.)	Main uses and principal characteristics
W'Add 604 N	low viscous liquid	25 %	0,86	1,0-4,0 %	Silicone containing defoamer and antifoam additive mainly for water thinnable wood and parquet lacquers, wall paints etc. based on acrylic emulsions.
W'Add 614	clear liquid	25 %	0,858	0,5-3,0 %	Silicone based, APEO free defoaming solution for water based systems of different composition.
W'Add 624	clear liquid	25 %	0,960	0,5-3,0 %	Silicone based, aromatic and APEO free defoaming solution for water based systems of different composition.
W'Add 626	colourless, viscous liquid	100 %		0,05-1,0 %	Silicone based silica containing defoamer concentrate for aqueous formulations. Very good defoaming in pigment mill bases
W'Add 659	milky liquid	10 %	1,0	0,1-0,5 %	Silicone foam control agent, effective in non-ionic, anionic and cationic systems.
W'Add 685	milky liquid	approx. 10 %	1,0	0,1-0,5 %	Silicone based, very efficient defoaming emulsion for water thinnable paints and lacquers, approved under FDA regulation 175.300.
W'Add 695	milky liquid	10 %	1,0	0,1-0,5 %	Silicone based, non-ionic antifoam emulsion for water-borne paints and lacquers.
W'Add W 633	yellowish milky liquid	100 %	1,013	0,1-0,5 %	Silicone and APEO free defoaming agent for water based systems of different composition. Specially recommended for 2 pack-PUR coatings and paints based on alkyd emulsions.
W'Add W 644	milky liquid	100 %	0,98	0,1-0,5 %	Mineral oil based defoamer and antifoam agent, very low silicone content, for different aqueous systems.
W'Add W 646	milky liquid	100 %	0,84	0,1-1,0 %	Silicone and aromatic free, mineral oil based defoamer and antifoam agent. Also excellent for printing inks.

WorléeAdd - Defoamers for solvent based and solvent free systems



Type	Appearance	Forms of delivery	Addition (calc. on total form.)	Main uses and principal characteristics
W'Add 317	clear, yellowish liquid	100 %	0,01-0,3 %	Silicone based additive, multifunctional, aids defoaming and deairing, improves as well levelling and mar resistance.
W'Add 370	colourless liquid	10 % in X/BAC/cyclo- hexanon 4:4	0,03-0,5 %	Fluor silicone based defoamer and deairing agent for solvent based paints and inks of different compositions as well as EP-coatings.
W'Add 371	colourless liquid	1 % in MPA	0,1-1,0 %	Fluor silicone based defoamer and deairing agent for solvent based and high solid coatings. Especially for decorative paints.
W'Add 372	colourless liquid	5 % in MPA	0,05-0,8 %	Fluor silicone based defoamer and deairing agent for solvent based and high solid coatings. Especially for industrial paints.
W'Add 373 N	colourless liquid	3 % in isoparaf. HC 150-180	0,2-1,0 %	Silicone based additive with multifunctional properties. Used in solvent based coatings mainly to achieve surface smoothness and mar resistance. At the same time it works as antifoam agent and avoids surface imperfections.
W'Add 425	clear, yellowish liquid	51 % in solvent blend	0,2-1,5 %	Silicone free antifoam agent and defoamer, especially suitable for wax containing coil coating structure paints and 2 component EP floor coatings.
W'Add 602	clear liquid	1,3 % in isoparaf. HC 170-200	0,4-2,0 %	Silicone based antifoam agent mainly for 2 component-PU and EP-coatings.
W'Add 603	clear liquid	13,2 % in isoparaffin. HC160-220	0,2-1,5 %	Polyacrylate modified silicone defoamer for solvent based and solvent free coatings of different compositions, approved under FDA regulation 175.300.
W'Add 635	clear to slightly turbid, yellowish liquid	8,5 % in solvent blend	0,5-2,0 %	Defoamer based on silicone-acrylic-mod. Especially for solvent based and solvent free EP-floor coatings.
W'Add 636	low viscous liquid	16 % in isoparaf. HC 170-200/ xyle- ne 49:35	0,2-3,0 %	Silicone based antifoam agent and defoamer for solvent based systems, especially suitable for solvent free PU coatings.
W'Add 677	clear to slightly yellowish liquid	20 % in hydro- carbons, aromatic free	0,05-0,6 %	Silicone free antifoam and defoaming additive for solvent based and solvent free formulations of different composition.
W'Add 678	clear liquid	10 % in solvent blend	1,0-3,0 %	Silicone free antifoam agent and defoamer mainly for solvent based and solvent free 2 comp.-PU coatings.



WorléeAdd / Resiflow - Additives for powder coatings

Type	Appearance	Addition (calc. on total form.)	Main uses and principal characteristics
W'Add 18	white powder	0,5-1,5 %	Silicone free powder flow control agent for general industrial applications.
W'Add 101 P	white powder	0,5-1,5 %	Silicone free powder flow control agent for high gloss powder coatings and clear coats.
W'Add 360	flaked solid	0,5-2,0 %	Low molecular weight, hydroxy functional polymeric silicone additive for better mar resistance, slip and flow.
W'Add 902	white powder	0,5-1,5 %	For reducing the melt viscosity, thus improving deairing and degassing. Best results in combination with very low amounts of benzoine (0,1-0,2 %). Especially suitable for non-yellowing powder coatings, for instance when cured in gas fired ovens.
W'Add 904	white granulate	0,5-4,0 %	For reducing the melt viscosity, thus improving deairing and degassing. Best results in combination with very low amounts of benzoine (0,1-0,2 %). Raw materials 21 CFR 175.300 FDA listed.
W'Add 915	white powder	1,5-2,5 %	Catalyst for better mechanical properties of GMA-acrylic powder systems based e.g. on Isocryl EP-570.
W'Add 1200	white powder	0,3-6,0 %	Micronized synthetic wax improving slip properties and mar resistance of powder coatings. Excellent deairing effect. At higher concentrations it may also function as a flattening agent.
W'Add ST-70	white powder	0,1-0,5 %	Stannous octoate catalyst for PU powder coatings.
Resiflow CP 77	white powder	0,2-1,0 %	Flow control agent with good anti-cratering effect. Also suitable for powder clear coats and UV systems.
Resiflow L 66 F	clear, viscous liquid	0,2-2,0 %	Liquid functional flow control agent. Excellent transparency in TGIC-powder clear coats. Use via a master batch production.
Resiflow L 66 F MB P	white powder	12-30 %	„ready to use“ polyester masterbatch of Resiflow L 66 F.
Resiflow P 64 F	white powder	0,5-2,0 %	Powder functional flow control agent for powder clear coats of all types, especially for GMA acrylate systems. Due to the special carrier material the transparency is hardly reduced.
Resiflow P 65 F	white powder	0,5-2,0 %	Powder functional flow control agent for powder clear coats of all types, especially based on epoxy.
Resiflow P 67	white powder	0,5-1,5 %	Silicone free powder flow control agent with good allround properties.
Resiflow PH-240	white powder	0,5-2,0 %	Powder functional flow control agent with excellent flow without increasing „pill flow“; especially suitable for PU powder systems and PUR clear coats
Resiflow PL 200	white powder	0,5-1,5 %	Silicone free powder flow control agent with good intercoat adhesion when recoated with powder or liquid paints.
Resiflow PV 5	white powder	0,5-1,5 %	Powder silicone free acrylic flow and levelling control agent for powder coatings of all types. Very free-flowing and yellowing resistant.
Resiflow PV 88	white powder	0,5-1,5 %	As Resiflow PV 5, but on another silicate.
Resiflow PW 155	white powder	0,5-1,5 %	Silicone free powder flow control agent for clear coats, especially GMA acrylic powder clear coats, with good recoatability and non-yellowing properties.

Specialties for powder coatings



Type	Appearance	Addition (calc. on total form.)	Additional information	Main uses and principal characteristics
Acrylic crosslinker GMA-300	water bright granulates	1,0-7,0 %	105-120 °C softening range	High reactive acrylic crosslinker for increasing crosslinking density, e.g. in Hybrid-, Primid and PU systems. Also as binder component for UV systems.
Epomatt G-151	granulate	2,0-10,0%	115-125 °C softening range	Matting agent for epoxy powder coatings, especially in combination with OTB-epoxy hardeners. Non-yellowing. Also for NIR-application.
Epomatt G-152	granulate	2,0-10,0 %	115-125 °C softening range	Matting agent for matt and dead matt epoxy and hybrid powder coatings. Matting of low temperature curing epoxy powders in combination with Epoxy Hardner G-91 and of low temperature curing (140°C) hybride powders with suitable polyester type. Also for NIR application.
Epoxy Hardener G-91	granulate	2,0-4,0 %	80-90 °C softening range	Imidazole adduct for curing epoxy powder coatings at low baking temperature (130°C) with still good mechanical properties.
Epoxy Hardener G-92	granulate	6,0-24,0 %	80-90 °C softening range	Catalysed phenolic curing agent for epoxy resins. Imparts excellent chemical resistance and mechanical properties at fast cure (200°C) or low temperature cure (120°C).
Escat 50	off-white granulates	0,3-0,6 %	-	Substituted Imidazole/wax blend to improve curing of powder coatings; easily dispersible.
Isocryl EP-570	thin flakes	13-18 %	> 140°C softening point	GMA-matting resin for „one-shoot“ matt powder coatings with good abrasion resistance and surface levelling, also suitable for matt clear coats.
Oxymelt A-6	white cristalline powder	max. 1,5 %	125-132°C softening range	Reduces the melt viscosity very effectively, also at lower temperature curing conditions. Improves greatly degassing and flow-out. High film build in Primid systems. Best results in combination with very low amounts of benzoine (0,1-0,2%).

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Worlée Product Overview

Resins and Additives for paints, lacquers and printing inks.

WorléeCryl

- water thinnable acrylic resins, emulsions and hydrosols, solutions
- A – solvent based acrylic resins, hydroxyl group containing
- L – solvent based acrylic resins

WorléeSol

- water thinnable alkyd emulsions
- water thinnable alkyd resins, forced and air drying
- water thinnable alkyd resins for stoving systems

WorléeKyd

- solvent based alkyd resins, short-, medium- and longoil, forced and air drying
- S – silicone modified alkyd resins
- U – urethane modified alkyd resins
- AC – acrylated alkyd resins
- solvent based alkyd resins for stoving, reactive and for NC-combination

WorléeThix

- solvent based alkyd resins, thixotropic
- A – solvent based acrylic resins, hydroxyl group containing, thixotropic

WorléeDur

- H – special hardeners for epoxy resins
- epoxy esters, drying

WorléePol

- water thinnable polyesters, oil free, saturated
- solvent based polyesters, saturated

WorléePur E

- water based polyurethane dispersion

WorléeSin

- maleic resins and rosin esters

WorléeFen

- hard resins, phenolic modified

WorléeAdd

- additives for paints, lacquers and powder coatings
- defoamers, wetting and dispersing agents
- flow control agents



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