

2019
EDITION



METAL, TRANSPORT AND ACE

 **HELIOS** RESINS



HELIOS RESINS, HIGH-QUALITY RESINS FOR RELIABLE COATING SOLUTIONS.

RESINS SUPPLIER SINCE 1908.

METAL, TRANSPORT AND ACE
THESE RESINS ENSURE
EXCELLENT PROTECTION
COATINGS FOR A BROAD
RANGE OF INDUSTRIAL METAL
COATING APPLICATIONS.

GOLDEN RESINS

Helios Resins is a separate business unit of Helios, now part of Kansai Paint, one of the world's leading paint and coatings producers. Today, Helios Resins produces around 60,000 tons of liquid resins annually, including coating resins, composite resins, and polyester polyols for PU flexible foams. Our coating resin brands – DOMOPOL, DOMACRYL, DOMALKYD, DOMEMUL and DOMOPUR – have achieved a strong market position and are trusted for their quality and performance. We currently serve more than 50 countries worldwide.

QUALITY OF SERVICE

We are committed to providing a flexible and reliable service while satisfying our customers' specific requests. Helios Resins ensures the quality, stability and reproducibility of every delivery. Our extensive know-how, resulting from more than 100 years of experience, enables us to provide solutions to our customers' challenges. Helios Resins experts produce tailor-made resins for specific needs and offer support in developing customized applications.

DEVELOPED WITH ADVANCED TECHNOLOGIES

Our laboratories and production facilities are fully equipped with the most advanced technologies, which enables the development and production of resins. Our R&D has advanced skills as well as equipment for polyester and acrylic chemistry, including synthesis under pressure. We are constantly upgrading our production lines and increasing our production capacities to meet the highest demands of our customers. In 2018 we introduced a new reactor line for water-based resins.

OUR STRENGTHS

- FLEXIBILITY
- ON-TIME DELIVERY
- HIGH QUALITY



ACRYLIC SOLVENTBORNE 1K RESINS

RESIN	DELIVERY FORM	ACID VALUE on solid resin [mg KOH/g]	VISCOSITY 23 °C [mPa.s]	Tg [°C]	DESCRIPTION
DOMACRYL 247	47 W / iB	105 – 115	250 – 500	30	Temporary protective coatings removable with alkaline products.
DOMACRYL 835	50 BAc	5 – 10	3000 – 5000	41	Universal resin for protective coatings, used alone or in combination with vinyl resins. Good durability and abrasion resistance.
DOMACRYL 840	50 X / SA	5 – 10	4000 – 6000	62	Pigmented and transparent paints with good heat stability, hiding power. Hard, tough and flexible. Also for aerosols.
DOMACRYL 841	50 BAc	max. 10	3000 – 4000	62	Pigmented and transparent paints with good heat stability, hiding power. Hard, tough and flexible. Also for aerosols.
DOMACRYL 846	50 X / SA	5 – 10	3000 – 4500	72	Pigmented and transparent paints. Gasoline and plasticizers resistant. Also for aerosols.
DOMACRYL 854	65 BAc	15 – 25	5000 – 9000	14	Primers and top coats for nonferrous metals. Excellent toughness, rapid drying, high gloss and adhesion.
DOMACRYL 872	60 X	8 – 12	10000 – 15000	50	Pigmented and transparent paints for plastic. Rapid drying and excellent toughness.

ACRYLIC SOLVENTBORNE 2K RESINS

RESIN	DELIVERY FORM	ACID VALUE on solid resin [mg KOH/g]	HYDROXYL VALUE on solid resin [mg KOH/g]	VISCOSITY 23 °C [mPa.s]	DESCRIPTION
DOMACRYL 5196	60 SA	max. 10	33 – 50	4000 – 5000	Air and forced drying top coats with good lightfastness and chalking resistance. Adhesion on steel and most non-ferrous materials.
DOMACRYL 505	60 X / BAc	max. 5	45 – 55	1400 – 2400	Standard elastic resin for industrial primers and top coats.
DOMACRYL 506	60 SA	max. 10	50 – 65	2000 – 2400	Standard resin for air-drying and stoving.
DOMACRYL 568	60 X / MPA	max. 10	55 – 65	3000 – 5000	Universal resin for industrial paints.
DOMACRYL 568	60 X	max. 10	55 – 65	3000 – 5000	Universal resin for industrial paints.
DOMACRYL 507	50 X / BAc	max. 5	60 – 70	600 – 1200	Fast drying primers and top coats.
DOMACRYL 536	60 X	max. 10	75 – 100	1300 – 2300	Standard resin for industrial paints.
DOMACRYL 536	60 SA	max. 10	75 – 100	2300 – 3300	Standard resin for industrial paints.
DOMACRYL 5367	70 BAc	15 – 22	75 – 100	2700 – 4700	Anticorrosion primers, top and clear coats.
DOMACRYL 5428	70 BAc	max. 15	80 – 100	1500 – 2500	Protective coatings for forced drying paints.
DOMACRYL 5705	60 X	5 – 10	85 – 105	3000 – 4000	Top coats for agricultural machinery and high grade industrial paints.
DOMACRYL 5130	70 BAc	6 – 10	90 – 110	4000 – 6000	Primers and top coats for transportation coatings, machinery and other high quality protective and maintenance coatings.
DOMACRYL 5267	60 BAc	max. 10	90 – 110	4000 – 6000	Universal resin for industrial paints.
DOMACRYL 5267	60 X / MPA	max. 10	90 – 110	4000 – 6000	Universal resin for industrial paints.
DOMACRYL 521	60 X	max. 10	100 – 120	1400 – 1800	Protective coatings.
DOMACRYL 5501	74 BAc	8 – 10	100 – 120	3500 – 6500	Excellent mechanical properties and superior outdoor durability.
DOMACRYL 5262	75 BAc / EEP / MPA	max. 13	100 – 120	13000 – 17000	Room temperature drying or forced drying systems with fast build-up of hardness.
DOMACRYL 5210	75 BAc	7 – 11	110 – 130	5000 – 8500	Standard high solid resin for clear and top coats.
DOMACRYL 5437	75 SA	8 – 12	110 – 130	4200 – 7000	High solid stoving finishes in combination with melamine resins. Improvement of appearance of the top coats in a combination with stoving alkyd or thermosetting acrylic resins is possible.
DOMACRYL 547	60 X / SA / BAc	10 – 16	110 – 130	2500 – 3500	Standard resin for high–grade industrial paints with rapid initial drying.
DOMACRYL 5117	70 BAc	8 – 12	120 – 140	1000 – 1400	Air and forced drying coatings. Very good lightfastness and good resistance to solvents.
DOMACRYL 5475	65 X / BAc	5 – 12	120 – 140	3500 – 4500	Very fast drying.
DOMACRYL 5187	70 BAc	max. 15	130 – 145	2800 – 4200	Universal resin for industrial paints.
DOMACRYL 5199	75 BAc	4 – 8	130 – 150	5500 – 7500	Forced drying or stoving enamels.
DOMACRYL 5481	75 BAc	max. 12	130 – 150	4500 – 6000	Air and forced drying top coats with excellent outdoor stability, chemical resistance and mechanical properties.
DOMACRYL 5485	75 BAc	max. 12	135 – 155	8000 – 12000	Fast drying. DTM.
DOMACRYL 5500	75 BAc	8 – 12	140 – 160	3500 – 10000	Very good balance between hardness and flexibility. Excellent mechanical properties and superior chemical resistance.
DOMACRYL 522	60 X / MPA	18 – 25	140 – 160	4000 – 5000	Standard resin for industrial paints.
DOMACRYL 522	60 X / SA / BAc	max. 10	140 – 160	4000 – 6000	Fast drying standard resin.
DOMACRYL 526	70 BAc	max. 8	140 – 160	7000 – 11000	Coatings for large machinery, alone or in combination with saturated alkyd resins.
DOMACRYL 544	60 X / SA / BAc	max. 12	140 – 160	3500 – 8000	Fast drying. Also for primers including plastics.
DOMACRYL 543	60 X / MPA	8 – 14	145 – 165	2000 – 2500	Standard high-performance resin.

ACRYLIC SOLVENTBORNE 2K SPECIALTIES

RESIN	DELIVERY FORM	HYDROXYL VALUE on solid resin [mg KOH/g]	VISCOSITY 23 °C [mPa.s]	DESCRIPTION	
DOMACRYL 5245	75 BAc	125 – 145	2000 – 5000	Extremely fast drying and long pot-life. Superior mechanical properties and outdoor durability.	PATENT PENDING
DOMACRYL 5369	75 BAc	80 – 100	6000 – 9000	Fast drying and very long pot-life, for high solid clear and top coats. Good cost-performance ratio.	PATENT PENDING
DOMACRYL 5451	50 BAc	55 – 70	4000 – 6000	Fast drying and very long pot-life, based on DOMACRYL 545, for clear and top coats.	PATENT PENDING

ACRYLIC WATERBORNE RESINS

RESIN	DELIVERY FORM	VISCOSITY 23 °C [mPa.s]	pH	HYDROXYL VALUE on solid resin [mg KOH/g]	ACID VALUE on solid resin [mg KOH/g]	MFPT [°C]	DESCRIPTION
DOMEMUL SA 9262	42 Wa	50 – 250	8.0 – 8.5			30	Styrene-acrylic emulsion. Finishes and anticorrosion primers. APEO-free version is available by request.
DOMEMUL SA 9263	40 Wa	20 – 350	8.0 – 8.5			45	Styrene-acrylic APEO-free emulsion. Finishes and anticorrosion primers.
DOMEMUL AA 7601	44 Wa	max. 1000	8.0 – 10.0			30	Fast drying acrylic emulsion.
DOMEMUL RA 9675	35 Wa	50 – 1000	6.0 – 7.0		20 – 30	0	Acrylic APEO-free latex resin for effect pigmented based coats (metallic, pearlescent).
DOMEMUL OHA 9200	45 Wa	20 – 600	7.5 – 9.0	70 – 100			OH-functional styrene-acrylic primary emulsion. Good gloss and adhesion to metal, suitable for DTM. Cost-efficient.
DOMACRYL 0707	43 Wa / DPM	100 – 3000	8.0 – 9.0	100 – 120	35 – 45		Modified acrylic secondary dispersion. Very flexible. Good wet-on-wet application.
DOMACRYL 0769	45 Wa / BG / SA	200 – 1000	7.0 – 8.5	100 – 120	20 – 30		Standard acrylic secondary dispersion for 2K PUR aqueous clear and top coats.
DOMACRYL 0724	45 Wa / PnB / SA	200 – 1000	7.0 – 8.0	125 – 145	24 – 30		Acrylic secondary dispersion. Standard resin for 2K PUR systems.
DOMACRYL 0768	42 Wa / PnB	200 – 5000	8.0 – 9.0	130 – 150	20 – 30		Acrylic secondary dispersion. Standard resin for 2K PUR systems. High gloss, without aromatic co-solvent.
DOMACRYL 0765	42 Wa / BG / SA	200 – 1000	7.0 – 8.5	130 – 150	24 – 32		Acrylic secondary dispersion. High hardness, without aromatic co-solvent.
DOMACRYL 0795	41 Wa / PnB	200 – 2000	7.0 – 8.0	155 – 175	24 – 30		Acrylic secondary dispersion. Top quality 2K PUR systems. Suitable for DTM.

ALKYD SOLVENTBORNE 1K RESINS

RESIN	DELIVERY FORM	OIL LENGHT / OIL TYPE	ACID VALUE on solid resin [mg KOH/g]	VISCOSITY 23 °C [mPa.s]	DESCRIPTION
DOMALKYD 1261	60 X	26% Soyabean FA	max. 12	2000 – 4000	Standard resin for fast air and forced drying primers and top coats.
DOMALKYD 1272	60 X	27% Soyabean FA	max. 10	2000 – 3000	Standard resin for fast air and forced drying primers and top coats.
DOMALKYD 1351	75 BAc	39% Soyabean FA	max. 8	1000 – 5000	Binder for low-yellowing solvent borne coatings. High solid resin in BAc for baking or NC coatings.
DOMALKYD 1361	60 X	34% Soyabean FA	max. 10	4400 – 5600	Fast air drying primers, putties and industrial finishes.
DOMALKYD 1401	60 X	40% Tall oil FA	max. 12	3000 – 4000	Fast drying anticorrosion paints and industrial finishes.
DOMALKYD 1468	50 Solvent mix	46% Non-yellowing FA	max. 12	660 – 1000	Very fast surface and through drying with high gloss and resistance to yellowing.
DOMALKYD 1482	55 W / X	48% Soyabean FA	max. 12	5000 – 7000	Standard resin for paints, very good overall properties. Air and forced drying.
DOMALKYD 1526	55 W	52% Soyabean oil	max. 15	2000 – 3000	Pigment pastes for combination with medium oil air-drying alkyd resins. Finishes with excellent weather resistance.
DOMALKYD 3335	60 X / SA / nB	33% DCO FA	max. 25	750 – 1250	Reactive resin for combination with melamine and alkyd resins. High reactivity.
DOMALKYD 3454	60 X	45% DCO FA	max. 20	3300 – 4300	Reactive resin for combination with melamine and alkyd resins. Medium reactivity.
DOMALKYD 4391	60 X	39% Soyabean FA	max. 15	4000 – 6000	Universal stove drying coatings in combination with melamine resin.
DOMALKYD 5435	60 SA / X	43% Synthetic FA	max. 15	2500 – 3500	Industrial finishes in combination with DCO alkyd and melamine resins. Universal pigment pastes for NC and stoving finishes.

MODIFIED ALKYD SOLVENTBORNE 1K RESINS

RESIN	DELIVERY FORM	OIL LENGHT / OIL TYPE	MODIFICATION	ACID VALUE on solid resin [mg KOH/g]	VISCOSITY 23 °C [mPa.s]	DESCRIPTION
DOMALKYD 6351	60 X	35% Soyabean FA	Epoxy ester	max. 4	8000 – 12000	Anticorrosion primers and finishes.
DOMALKYD 6400	60 X	40% Soyabean FA	Epoxy ester	max. 4	7000 – 10000	Anticorrosion primers, air or stove drying with melamine resins. Fast drying, excellent adhesion and hardness.
DOMALKYD 7351	60 X	35% Soyabean FA	Aromatic urethane	6 – 15	4000 – 7000	Fast drying enamels.
DOMALKYD 7575	55 D-40	57% Soyabean FA	Aliphatic urethane	max.5	3000 – 4500	Non-yellowing enamels. Good outdoor durability.
DOMALKYD 8372	60 X	37% Linseed, tung oil	Phenolic	13 – 25	2500 – 3500	Universal binder for anticorrosion primers. Excellent drying properties and adhesion.
DOMALKYD 8372	70 BAc	37% Linseed, tung oil	Phenolic	13 – 25	5000 – 7000	Universal binder for anticorrosion primers. Excellent drying properties and adhesion.
DOMALKYD 9314	60 X	31% Soyabean FA	Styrene	max. 10	1700 – 2700	Fast drying industrial primers and finishes for metal and radiator enamels, good recoatability.
DOMALKYD 9375	50 X	37% Soyabean FA	Acrylic / Styrene	max. 15	2000 – 3000	Industrial primers and finishes. Very good moisture resistance.

ALKYD SOLVENTBORNE 2K RESINS

RESIN	DELIVERY FORM	ACID VALUE on solid resin [mg KOH/g]	HYDROXYL VALUE on solid resin [mg KOH/g]	VISCOSITY 23 °C [mPa.s]	DESCRIPTION
DOMALKYD 4284	70 X	max. 12	70 – 100	4000 – 6000	Air and forced drying lacquers.
DOMALKYD 5261	70 MPA	max. 20	150 – 175	4000 – 6000	Air and forced drying lacquers, pigment pastes.
DOMALKYD 5331	75 BAc	6 – 10	140 – 160	6000 – 10000	High grade industrial paints.

ALKYD WATER REDUCIBLE RESINS

RESIN	DELIVERY FORM	OIL LENGHT / OIL TYPE	ACID VALUE on solid resin [mg KOH/g]	VISCOSITY 23 °C [mPa.s]	DESCRIPTION
DOMALKYD 0234	80 DMM	34% Soyabean FA	38 – 50	70000 – 90000	Good resistance to chemicals, high gloss, good hardness and elasticity.
DOMALKYD 0246	70 BG	Epoxy modified	35 – 65	8000 – 22000	Good pigment wetting, enhanced adhesion, rapid curing, good anticorrosion properties.
DOMALKYD 0261	75 BG / 2B	29% Soyabean FA	35 – 45	17000 – 23000	Air drying and stoving primers and top coats.
DOMALKYD 0265	70 BG / 2B / PnB	30% Soyabean FA	30 – 35	15000 – 20000	Air and forced drying primers and top coats. High corrosion resistance.
DOMALKYD 0391	80 Wa / BG	38% Soyabean FA	40 – 50	30000 – 60000	Non-yellowing enamels. Good outdoor durability.

ALKYD WATER EMULSIONS

RESIN	DELIVERY FORM	MODIFICATION / OIL LENGHT	VISCOSITY 23 °C [mPa.s]	pH	DESCRIPTION
DOMALKYD 0460	38 Wa / MP	Acrylic modified, 56%	9000 – 15000	8.0 – 9.0	Fast air drying, high gloss, excellent flow and very low-yellowing. Low VOC content.
DOMALKYD 0461	38 Wa / BG	Acrylic modified, 56%	2000 – 10000	7.5 – 9.0	Styrene-free emulsion. Fast air drying, high gloss, excellent flow and very low-yellowing. Low VOC content.
DOMALKYD 0545	40 Wa	PU modified, 44%	50 – 500	7.0 – 8.0	Rapid air drying, high gloss and hardness, good water and chemical resistance. Approx. 1% Hydroxl content on solid resin. Without organic solvent.

POLYESTER SOLVENTBORNE RESINS

RESIN	DELIVERY FORM	ACID VALUE on solid resin [mg KOH/g]	HYDROXYL VALUE on solid resin [mg KOH/g]	VISCOSITY 23 °C [mPa.s]	DESCRIPTION
DOMOPOL 5100	60 X	20 – 30	~30	300 – 650	Adhesion improvement on aluminium, steel and galvanized steel.
DOMOPOL 5103	60 X / SA	12 – 20	~30	600 – 1500	Adhesion improvement on aluminium and steel; improves the hardness.
DOMOPOL 5144	60 X / BGAc	15 – 30	~30	1000 – 4500	Adhesion improvement on aluminium and steel; excellent hardness/flexibility ratio.
DOMOPOL 5200	75 BAc	20 – 30	~95	1000 – 2500	Adhesion improvement on aluminium, steel and galvanized steel; suitable for high solids coatings.
DOMOPOL 5381	65 X	15 – 25	75 – 90	600 – 1200	Branched polyester resin for stoving enamels.
DOMOPOL 6044	96 BAc	0 – 2	~300	5000 – 8000	High solid PU coatings with reduced VOC and/or viscosity. Good flexibility, chemical resistance and durability.
DOMOPOL 6046	100 %	7 – 12	250 – 290	750 – 1000	Used with hydroxyl acrylic resins to increase solids content of coatings.
DOMOPOL 6067	80 BAc	max. 2	130 – 160	1800 – 2600	2K PUR coatings.
DOMOPOL 6068	60 X	17 – 25	80 – 120	2250 – 3250	Air drying 2K industrial coatings in combination with isocyanates.
DOMOPOL 6115	100 %	max. 3	140 – 160	2500 – 4500	Solvent-free polyester and polyether polyol, suitable for use in the formulation of 2K coatings. The coatings are tough and flexible, hard-wearing and chemical resistant.
DOMOPOL 6181	75 X	max. 15	145 – 180	6000 – 9000	2K PUR flexible and chemical resistant coatings, with good pigment wetting properties and high resistance to yellowing.

2B = 2-Butanol, APEO = Alkylphenol ethoxylate, BAc = Butyl acetate, BG = Butylglycol, BGAc = Butylglycol acetate, D-40 = Dearomatized white spirit, DCO = Dehydrated castor oil, DMM = Dipropylene glycol dimethyl ether, DPM = Dipropylene glycol monomethyl ether, DTM = Direct-to-metal, EEP = Ethyl 3-ethoxypropionate, FA = Fatty acid, iB = Isobutanol, MP = Methoxypropanol, MPA = Methoxy propyl acetate, nB = n-Butanol, NC = Nitrocellulose, PnB = Propylene glycol monobutyl ether, SA = Aromatic solvent 100, W = White spirit, Wa = Water, X = Xylene.



ISO 9001
ISO 14001
BUREAU VERITAS
Certification



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