



CAN AND COIL



HELIOS

RESINS,

HIGH-QUALITY

RESINS FOR

RELIABLE

COATING

SOLUTIONS.

CAN AND COIL

A BROAD PORTFOLIO OF MODERN RESINS FOR ADVANCED CAN AND COIL COATING APPLICATIONS.

GOLDEN RESINS

Helios Resins is a separate business unit of the Helios Group producing the highest quality liquid resins for advanced coating and composite manufacturers globally. Today, Helios Resins produces over 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, and DOMEMUL – have achieved a strong market position and are trusted for their quality and reliable service. We currently serve over 50 countries worldwide, including Germany, Italy, France, Poland, Switzerland, Russia, the South African Republic, Morocco, Turkey, the UAE, Saudi Arabia, Thailand, and many others.

QUALITY OF SERVICE

We are committed to providing flexible and reliable service while satisfying your specific requests. Helios Resins ensures quality, stability and reproducibility of every delivery. With the know-how, resulting from over 100 years of experience, together as partners we can solve your challenges. Our experts produce tailor-made resins for your particular needs and offer support in developing your applications.

DEVELOPED BY ADVANCED TECHNOLOGY

Our laboratories and production facilities are fully equipped with the most advanced technology enabling 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. Our production lines were upgraded in 2014 with a new pilot and large-scale reactor, resulting in new types of environmentally-friendly resins, as well as increased production capacities.

OUR STRENGTHS

- FLEXIBILITY TO MEET CUSTOMER'S REQUIREMENTS
- ON-TIME DELIVERY
- HIGH QUALITY OF EVERY ORDER

CAN COATING / SATURATED 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]	FDA 175.300
DOMOPOL 5102	55 SAB / BG	max. 3	~20	2500 – 5500	-
DOMOPOL 5108	50 SAB / BG	max. 5	~40	2000 – 2800	-
DOMOPOL 5110	50 SAB / SN / MP	8 – 10	16 – 24	4700 – 6000	-
DOMOPOL 5114	55 SAB / MPA	max. 3	20 – 30	5500 – 7500	+
DOMOPOL 5117	60SAB	5 – 10	22 – 30	14000 – 18000	-
DOMOPOL 5118	55 SAB	3 – 5	18 – 26	4000 – 5000	-
DOMOPOL 5128	60 SAB	2 – 7	~50	3000 – 5000	-
DOMOPOL 5132	60 SAB / MPA	4 – 7	45 – 55	3500 – 6000	(+)
DOMOPOL 5138	55 SAB / BDGA	6 – 9	~60	2300 – 2900	-
DOMOPOL 5142	60 SAB / DBE	max. 6	15 – 25	9500 – 13500	(+)
DOMOPOL 5147	55 SAB	max. 3	~20	3500 – 5500	-
DOMOPOL 5148	55 MP / DPM	max. 3	~40	3600 – 5000	(+)
DOMOPOL 5155	55 SA / MPA	max. 3	~70	2000 – 3000	+
DOMOPOL 5158	50 SAB / DBE / BDG	max. 8	15 – 30	3000 – 4500	(+)
DOMOPOL 5158	50 SAB / DBE	max. 8	15 – 30	1500 – 3000	(+)
DOMOPOL 5176	60 SA	max. 10	~100	3500 – 5500	-
DOMOPOL 5181	60 SA	max. 5	~40	4000 – 5500	(+)
DOMOPOL 5187	60 SAB / BG	max. 8	~45	4500 – 6500	+
DOMOPOL 5224	60 SAB	5 – 10	22 – 30	11000 – 15000	-
DOMOPOL 8101	65 SAB / BG	40 - 50	~17	7000 – 9000	-
DOMOPOL 9010	40 SAB / DBE	max. 4	5 – 10	3500 – 4500	(+)
DOMOPOL 9020	40 SA / DBE	8 – 10	5 – 10	3800 – 4700	(+)
DOMOPOL 9030	35 SAB / DBE / X / BG	max. 5	5 – 10	800 – 1500	(+)
DOMOPOL 9040	40 SA / MPA	max. 3	5 – 10	2000 – 4000	(+)
DOMOPOL 9050	40 SA	max. 3	5 – 10	1800 – 3500	(+)
DOMOPOL 9060	40 SAB / MPA	max. 4	5 – 10	3000 – 5000	+
DOMOPOL 9070	40 SAB / MPA	max. 4	5 – 10	3000 – 5000	(+)
DOMOPOL 9090	40 SA / MPA	max. 3	~9	2000 – 4000	+

CAN COATING / WATERBORNE 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]	FDA 175.300
DOMOPOL 5125	70 BG	40 – 50	~50	4000 – 6500	(+)
DOMOPOL 5160	75 BG	50 – 60	~100	6500 – 8500	(+)
DOMOPOL 8260	65 BG	~60	~40	6000 – 10000	(+)
DOMALKYD 0391	80 Wa / BG	40 – 50	~200	30000 – 60000	+
DOMOPOL 0194	45 Wa	50 – 60	~120	300 – 1500	(+)
DOMALKYD 0503	80WA	40 – 50	~140	5000 – 35000	

FDA 175.300: + full compliance; (+) limited compliance (non alcoholic food content); - no compliance

Tg [°C]	Mn	APPLICATION
35	6000	Metal decoration, sterilization resistance.
24	7000	General line, white base coat.
50	6000	Aerosol cans, adhesion on aluminium.
43	5000	Aerosol cans / badge free, for Epoxy- free coatings.
25	5000	General line, good flexibility.
32	6000	Twist off closures, interior general purpose.
15	4500	Overprint varnish, flexibility.
23	4500	General line, white base coat.
22	4000	B&B cans exterior.
51	5000	White base coat, good adhesion on aluminium.
15	6000	General line.
20	4000	Wet-on-wet, deep drawable, sterilization resistance.
80	5500	interior / exterior coats, for Epoxy- free coatings.
62	5000	General line, aerosols, adhesion on aluminium, clear coats.
62	5000	General line, aerosols, adhesion on aluminium, clear coats.
13	4000	Overprint varnish.
25	5000	General line.
23	4500	Interior / exterior coats, for Epoxy- free coatings.
25	5500	General line (flexibility).
20	2500	Acrylated polyester resin for 2 piece cans; adhesion on aluminium and tinplate.
67	15000	HDG primer, corrosion resistance.
65	18000	Adhesion on HDG Steel, hot laminating adhesives.
47	15000	Primer for HDG and aluminium, interior coating, elastification resin, foil primer, heat sealing lacquers.
70	18000	Interior coating.
105	15000	Interior coatings, epoxi replacement.
84	18000	Sterilization resistance, epoxi replacement.
40	15000	Interior / exterior coatings and adhesion promoting.
40	15000	Interior can coating, tube and aerosol can coating.

Tg [°C]	Mn	APPLICATION
12	1000	Water dilutable polyester resin for white base coat.
20	2000	Water dilutable polyester resin for stoving enamels.
31	3000	Water dilutable acrylated polyester resin for B&B / base-and clear coats.
11	1000	Waterborne alkyd for primer and topcoat; pH 7 - 9.
33	1000	Waterborne polyester for stoving enamels; solvent free; pH 7 - 9.
	2000	High bodied stoving systems in one-coat and decorative finishes.

COIL COATING / SATURATED POLYESTER 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]	STRUCTURE
DOMOPOL 5102	50 SAB / SN	max. 3	~20	2000 – 4000	L
DOMOPOL 5106	60 SAB / BG	3 – 6	28 – 35	4000 – 5000	L
DOMOPOL 5111	65 SAB / BG	7 – 11	95 – 105	1500 – 2000	B
DOMOPOL 5112	60 SAB / BG	max. 3	30 – 40	2400 – 4000	B
DOMOPOL 5118	55 SAB	3 – 5	18 – 26	4000 – 5000	L
DOMOPOL 5119	65 SAB / BG	max. 3	50 – 58	1800 – 2800	B
DOMOPOL 5120	55 SAB / MPA / MP	max. 5	20 – 28	3000 – 5000	L
DOMOPOL 5130	65 SAB / BG	max. 8	28 – 36	1500 – 3000	L
DOMOPOL 5131	65 SAB / BG	max. 8	33 – 40	1500 – 3500	B
DOMOPOL 5140	60 SAB / BG	max. 5	28 – 36	2700 – 3600	L
DOMOPOL 5143	70 SA	max. 4	~50	2500 – 4000	L
DOMOPOL 5157	65 SA / X	max. 3	27 – 36	1500 – 3000	B
DOMOPOL 5169	50 SAB / DBE	max. 3	~35	3000 – 5000	B
DOMOPOL 5172	55 SAB	max. 3	~30	3000 – 5000	L
DOMOPOL 5178	70SA / BG	max. 5	~50	2000 – 4000	L
DOMOPOL 9010	40 SAB / DBE	max. 4	5 – 10	3500 – 4500	L
DOMOPOL 9020	40 SA / DBE	8 – 10	5 – 10	3800 – 4700	B
DOMOPOL 9030	35 SAB / DBE / X / BG	max. 5	5 – 10	800 – 1500	L
DOMOPOL 9040	40 SA / MPA	max. 3	5 – 10	2000 – 4000	L
DOMOPOL D615	65 SA BG	max. 10	~60	2200 – 3600	B

L - linear, B - branched

SPECIALITIES

RESIN	DELIVERY FORM	ACID VALUE on solid resin [mg KOH/g]	HYDROXYL VALUE on solid resin [mg KOH/g]	VISCOSITY 23 °C [mPa.s]	FDA 175.300
DOMOPOL 5100	60 X	20 – 30	~30	300 – 700	-
DOMOPOL 5103	60 X / SA	12 – 20	~30	600 – 1500	-
DOMOPOL 5144	60 X / BGAc	15 – 30	~30	1000 – 4500	+
DOMOPOL 5200	75 BAc	20 – 30	~95	1000 – 2500	-
DOMOPOL 5101	60 SAB / DBE	max. 3	15 – 22	4000 – 5000	(+)
ADDITIVE EP024	73 Wa / BG	40 – 50	/	6000 – 10000	+
ADDITIVE EP135	65 BG	120 – 135	/	1500 – 3000	+
DOMACRYL 285	55 SAB / BG	65 – 75	/	3500 – 7000	+
DOMACRYL 5350	50 X / BG	14 – 18	/	1500 – 3500	/
DOMACRYL 844	30 DBE	/	/	2500 – 4000	/

Tg [°C]	Mn	APPLICATION
35	6000	Interior architectural coatings, coil coating primers.
26	4500	Ageing resistance domestic appliances, outdoor durable systems. Good flexibility.
10	2000	Back coating / Infrared cured coil coatings.
20	4000	Exterior / interior architecture.
32	6000	Agenig resistance and high flexibility coil coating, domestic appliance.
15	4000	Coil Coating top coats, UV-absorption free. High durability.
55	5000	HDG steel and aluminium primers, onecoat systems.
10	3500	Interior / exterior architecture.
20	3000	QUV-B resistant / exterior architecture.
20	4000	Exterior / interior architecture.
18	3000	Coil coating primer.
25	5000	QUV-A stability / exterior coatings.
55	4000	Primer for HDG steel and ALU.
30	6000	Interior architecture.
10	2000	One coat systems for exterior and interior architecture; high paint solids, very reactive.
67	15000	HDG primer, corrosion resistance.
65	18000	Adhesion on HDG Steel, hot laminating adhesives.
47	15000	Primer for HDG and aluminium, elastification resin, foil primer, heat sealing lacquers.
70	18000	Appliance finishing.
7	2500	Coil coating enamels for high reactivity formulation. NIR curing.

Tg [°C]	Mn	APPLICATION
20	3000	Adhesion improvement on aluminium, steel and galvanized steel.
70	3000	Adhesion improvement on aluminium and steel; improves the hardness.
50	2000	Adhesion improvement on aluminium and steel; excelent hardness / flexibility ratio.
5	2000	Adhesion improvement on aluminium, steel and galvanized steel; suitable for high solids coatings.
-5	7000	Flexibilizer resin.
/	/	Epoxy phosphate additive for waterborne stoving enamels.
/	/	Epoxy phosphate additive for stoving enamels.
/	/	Adhesion improvement; CAN coating.
/	/	Thermosetting acrylic resin for PVDF Application; COIL coating.
/	/	Duroplast acrylic resin for PVDF systems and plastics; COIL coating.



ISO 9001
ISO 14001

BUREAU VERITAS
Certification



European company
Global delivery

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