



2024  
EDITION

# CAN AND COIL



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

We produce around 70,000 tons of liquid resins annually, including coating and composite resins. Our coating resin brands – DOMACRYL, DOMOPOL, DOMALKYD, DOMEMUL, DOMOPUR and ATRESIN – have achieved a strong market position and are trusted for their quality and performance. With the combined strength of two strong production companies, ATCOAT and Helios Resins, we serve more than 50 countries worldwide. Our production sites in Germany and Slovenia allow us to deliver our quality resins throughout Europe and beyond. A broad product portfolio, intensive R&D and innovation capabilities, high production flexibility, and superior customer service are the strengths of Helios Resins and ATCOAT as a joint specialist for synthetic resins.

### SUSTAINABLE APPROACH

By developing advanced, green, and long-lasting materials, we reduce emissions of hazardous organic solvents, incorporate bio-renewable raw materials and create a potential for energy savings. Our sustainable approach encompasses the production of bio-based materials, water-based resins, high solids, BPA non-intent resins, recycling, and participation in EU initiatives. We are the first in Slovenia to be ISCC Plus certified and offer several products made from sustainable raw materials that are certified in all parts of the value chain back to the point of origin. A sustainable future matters greatly to us, our business, and our customers. We are proud to see this reflected in the EcoVadis Gold Medal we received for our sustainability performance.

### DEVELOPED WITH ADVANCED TECHNOLOGIES

Our laboratories and production facilities are fully equipped with the most advanced technologies, which enables the development and production of even the most complex solvent and waterborne resins. Our R&D has advanced skills as well as equipment for polyester and acrylic chemistry, including synthesis under pressure. By continually upgrading our production lines and expanding our production capacities, we can meet the most rigorous and complex needs and demands of our customers.

### QUALITY OF SERVICE

We are committed to providing a flexible and reliable service while satisfying our customers' specific requests. Helios Resins and ATCOAT ensure 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. We produce tailor-made resins for specific needs and offer support in developing customized applications.

























## 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	~50	2000 – 2800	-
DOMOPOL 5110	50 SAB / SN / MP	8 – 10	16 – 24	4700 – 6000	-
DOMOPOL 5117	60 SAB	5 – 10	22 – 30	14000 – 18000	-
DOMOPOL 5118	55 SAB	3 – 5	18 – 26	4000 – 5000	-
DOMOPOL 5128	60 SAB	2 – 10	~50	2500 – 4000	-
DOMOPOL 5132	60 SAB / MPA	4 – 7	45 – 55	4500 – 6500	(+)
DOMOPOL 5142	60 SAB / DBE	max. 6	15 – 25	9500 – 13500	(+)
DOMOPOL 5147	55 SAB	max. 3	~20	3500 – 4500	-
DOMOPOL 5148	55 MP / DPM	max. 3	~40	3600 – 4400	(+)
DOMOPOL 5155	55 SA / MPA	max. 5	~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 5201	55 SA / MPA	max. 5	~70	2000 – 3000	+
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 9070	40 SAB / MPA	max. 4	5 – 10	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	7000 – 11000	(+)
DOMOPOL 0194	45 Wa	50 – 60	~120	300 – 1500	(+)
DOMOPOL 0358	70 Wa / BDG	40 – 60	~100	15000 – 25000	-
DOMALKYD 0391	80 Wa / BG	40 – 50	~200	30000 – 60000	+
DOMALKYD 0503	80 Wa	40 – 50	~200	5000 – 35000	-

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

Tg [°C]	Mn	BIO-BASED CONTENT on solid resin [%]	DESCRIPTION
30	6000	14 	Metal decorating enamels.
24	7000	25 	General line, white base coat.
50	6000		Aerosol cans, adhesion on aluminium.
25	5500	23 	General line, twist off closures, excellent flexibility.
32	6000	10 	Twist off closures, general purpose.
15	4500	3	Overprint varnish, flexibility.
23	4500	33 	General line and tube coating, white base coat.
51	5000	26 	White base coat, good adhesion on aluminium.
15	6000	22 	General line, flexibility.
20	4000	26 	Overprint varnish, wet-on-wet, deep drawable.
80	5500	6 	BPA-NI interior and exterior coatings.
62	5000	24 	Aerosol cans, adhesion on aluminium, clear coat and white base coat.
62	5000	24 	Aerosol cans, adhesion on aluminium, clear coat and white base coat.
13	4000	36 	Overprint varnish, wet-on-wet, hardness.
25	5000	48 	General line.
23	4500	6 	BPA-NI interior and exterior coatings, flexibility.
65	5500	5 	BPA-NI interior and exterior coatings.
25	5500	22 	General line, flexibility.
20	2500	16 	Acrylated polyester resin for 2-piece cans; adhesion on aluminium and tinplate.
67	15000	27 	Metal decorating enamels, good compatibility.
65	18000	27 	Interior coatings, good reactivity.
47	15000	28 	Interior coatings, elastification resin, adhesion promotion.
70	18000	29 	BPA-NI interior coatings, improves blocking resistance.
105	15000		BPA-NI interior coatings, chemical resistance.
40	15000	22 	BPA-NI interior coatings, adhesion promotion.

Tg [°C]	Mn	BIO-BASED CONTENT on solid resin [%]	DESCRIPTION
12	1000	43 	White base coat.
20	2000	52 	Metal decoration enamels.
31	3000	16 	Acrylated polyester resin for B&B; base and clear coat.
33	1000	14 	Metal decoration enamels, solvent free, pH 7 – 9.
7	1500	16 	White base coat.
11	1000	66 	Metal decoration enamels, pH 7 – 9.
10	1000	30 	Excellent pigment wetting and application properties. Without organic solvent.

## 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 – 12	95 – 105	1500 – 2000	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 5134	65 SAB / BG	max. 8	40 – 50	4000 – 5000	B
DOMOPOL 5140	60 SAB / BG	max. 5	28 – 36	2700 – 3600	L
DOMOPOL 5157	65 SA / X	max. 3	40 – 50	1500 – 3000	B
DOMOPOL 5169	50 SAB / DBE	max. 3	~35	3000 – 5000	B
DOMOPOL 5172	55 SAB / MPA	max. 3	~30	2000 – 4000	L
DOMOPOL 5174	60 SAB / MPA	max. 5	20 – 28	5500 – 7500	L
DOMOPOL 5178	70 SA / BG	max. 5	~50	2000 – 4000	L
DOMOPOL 5206	65 SA / BG	max. 10	~60	2200 – 3600	B
DOMOPOL 5207	62 SA / BG	max. 5	30 – 40	3000 – 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


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 – 650	(+)
DOMOPOL 5144	60 X / BGAc	15 – 30	~30	1000 – 4500	+
DOMOPOL 5101	60 SAB / DBE	max. 3	15 – 22	3500 – 5500	(+)
ADDITIVE EP024	73 Wa / BG	40 – 50		5000 – 8000	+
ADDITIVE EP135	65 BG	110 – 140		1500 – 3000	+
DOMACRYL 285	55 SAB / BG	65 – 75		3500 – 7000	+
DOMACRYL 5350	50 X / BG	14 – 18		1500 – 3500	
DOMACRYL 5652	55 BAc	max. 5	200 – 220	25000 – 45000	
DOMACRYL 844	30 DBE			2500 – 4000	
DOMACRYL 844	30 BDGA			2500 – 4000	

B&B = Beer and Beverage, BDGA = Butildiglycol acetate, BG = Butylglycol, BGAc = Butylglycol acetate, BPA-NI = Bisphenol A non-intent, DBE = Dibasic esters, DPM = propyl acetate, NIR = Near infrared, PVDF = Polyvinylidene fluoride, QUV-A = Laboratory ultraviolet testing with UVA-340 lamps, QUV-B = Laboratory ultraviolet testing with

Tg [°C]	Mn	BIO-BASED CONTENT on solid resin [%]	DESCRIPTION
30	6000	14 	Interior architectural coatings, appliance finishing, aluminium primers.
26	4500	11 	Domestic appliances, outdoor durable systems, good flexibility, ageing resistant coatings.
10	2000	50 	Back coatings, infrared cured coatings.
32	6000	10 	Domestic appliances, high flexibility, ageing resistant coatings.
15	4000	28 	Top coats, UV-absorption free, high durability.
55	5000	25 	HDG steel and aluminium primers, onecoat systems.
10	3500	24 	Interior and exterior architecture.
20	3000	21 	QUV-B resistant, exterior architecture, high durability.
20	3000	38 	Top coats and one-coat systems for exterior architecture.
20	4000	18 	Exterior and interior architecture.
25	5000	28 	QUV-A stability, exterior coatings, high durability.
55	4000	24 	Primers for HDG steel and aluminium, onecoat systems.
30	6000	25 	Interior architecture, appliance finishing.
50	5000	24 	HDG steel primers.
10	2000	29 	Onecoat systems for exterior and interior architecture; paints with higher solid content. Very reactive.
7	2500	24 	High reactivity top coats, NIR curing.
31	3000	33 	HDG steel primers.
67	15000	27 	HDG primers, corrosion resistance.
65	18000	27 	Adhesion on HDG steel, hot laminating adhesives.
47	15000	28 	Primers for HDG and aluminium, elastification resin.
70	18000	29 	Appliance finishing.

Tg [°C]	Mn	BIO-BASED CONTENT on solid resin [%]	DESCRIPTION
20	3000		Adhesion improvement on aluminium, steel and galvanized steel.
50	2000		Adhesion improvement on aluminium and steel; excellent hardness / flexibility ratio.
-5	7000	31 	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.
			Epoxy and hydroxy dual functional resin for 2K stoving applications. Epoxy equivalent weight 650 g/mol. Curing with amines, amides, polycarboxylates and polyisocyanates. BPA free coatings.
70			Thermoplastic acrylic resin for PVDF systems and plastics; COIL coating.
70			Thermoplastic acrylic resin for PVDF systems and plastics; COIL coating.

Dipropylene glycol monomethyl ether, HDG = Hot dip galvanised, ISCC = International Sustainability and Carbon Certification, MP = Methoxypropanol, MPA = Methoxy UVB-313 lamps, SA = Aromatic solvent 100, SAB = Aromatic solvent 150 ND, SN = Aromatic solvent 200 ND, Wa = Water, X = Xylene.



ISO 9001  
ISO 14001

BUREAU VERITAS  
Certification



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