RESINS FOR CAR REFINISHING COATINGS

HELIOS RESINS | ATCOAT

HIGH-QUALITY RESINS FOR ADVANCED COATING SOLUTIONS.

THE SECRET INSIDE EXCELLENT PRODUCTS

CAR REFINISHING

EXCELLENT MECHANICAL PROPERTIES, SUPERIOR OUTDOOR DURABILITY, AND OUTSTANDING APPEARANCE ARE GUARANTEED.

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, ATRESIN, ATRELUX and ATRETHIX – 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.

RESPONSIBLE MATERIAL DEVELOPMENT

By developing advanced and long-lasting materials and technolgies, we work to reduce the use of hazardous organic solvents, incorporate bio-renewable raw materials, and create a potential for energy savings. Our product and technology development activities encompass the production of bio-based materials, water-based resins, high solids technologies, BPA-NI resins (without addeed Bisphenol A), recycling solutions, and participation in EU initiatives. We are the first in Slovenia to be ISCC Plus certified and offer several products made from **ISCC PLUS-certified** raw materials certified throughout the value chain back to the point of origin. We are proud to see this reflected in the **EcoVadis Platinum Medal** we received in recognition of our corporate responsibility and sustainability management practices.

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 tailormade resins for specific needs and offer support in developing customized applications.

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 503	55 X / BAc / nB	10 – 15		1700 – 2600	Basecoat resin.
DOMACRYL 504	60 X / BAc	max. 10	55 – 65	5500 – 7500	Resin for very elastic basecoat and pigment paste. Good compatibility with other OH acrylic resins.
DOMACRYL 536	60 X	max. 10	75 – 100	1300 – 2300	Standard resin for clear and top coats. Available also in BAc and SA.
DOMACRYL 5705	60 X	5 – 10	85 – 105	3000 – 4000	Standard resin. Good adhesion, hardness, gloss and elasticity.
DOMACRYL 5130	70 BAc	6 – 10	90 – 110	4000 – 6000	Broad compatibility with similar acrylic resins. Good balance between hardness and flexibility.
DOMACRYL 521	60 X	max. 10	100 – 120	1400 – 1600	Standard high gloss resin. Good adhesion on different substrates.
DOMACRYL 5210	75 BAc	7 – 11	110 – 130	5000 – 8500	High solid top and clear coats.
DOMACRYL 547	60 X / SA / BAc	10 – 16	110 – 130	2500 – 3500	Rapid initial drying.
DOMACRYL 5475	65 X / BAc	5 – 12	120 – 140	3500 – 4500	Fast drying.
DOMACRYL 5124	75 BAc	5 – 10	120 – 145	3500 – 6000	Standard resin for top coats with VOC <420 g/L. 7% bio-based on solid content.
DOMACRYL 5187	70 BAc	max. 15	130 – 145	2800 – 4200	Broad compatibility with similar acrylic resins. Good balance between hardness and flexibility, with excellent mechanical properties and superior outdoor durability and solvent resistance.
DOMACRYL 5108	80 BAc	max. 16	130 – 150	4000 – 8000	Very high solid.
DOMACRYL 5481	75 BAc	max. 12	130 – 150	4500 – 6000	Excellent pigment wetting. CAB compatible.
DOMACRYL 549	70 X / BAc	9 – 15	130 – 150	2500 – 4000	Fast drying.
DOMACRYL 5485	75 BAc / MAK	max. 12	135 – 155	8000 – 12000	Excellent resistance and weather stability. CAB compatible. 10% bio-based on solid content.
DOMACRYL 5495	70 X / BAc	5 – 13	135 – 155	1200 – 2400	Good balance between hardness and flexibility. Excellent mechanical properties and superior outdoor durability.
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	Very good gloss retention and superior outdoor durability.
DOMACRYL 522	60 X / SA / BAc	max. 10	140 – 160	4000 – 6000	Standard high-performance resin.
DOMACRYL 526	70 BAc	max. 8	140 – 160	7000 – 11000	Standard high-performance resin.
DOMACRYL 544	60 X / SA / BAc	max. 12	140 – 160	3500 – 8000	Fast drying. Also for primers including plastics.
DOMACRYL 543	60 X / SA / BAc	8 – 14	145 – 165	2300 – 2800	Standard high-performance resin.
DOMACRYL 543	60 X / MPA	8 – 14	145 – 165	2000 – 2500	Standard high-performance resin.

ACRYLIC SOLVENTBORNE 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]	DESCRIPTION
DOMACRYL 5109	85 BAc / Ac	max. 10	135 – 155	8000 – 12000	Clear and pigmented top coats. Good balance between hardness and flexibility, with excellent mechanical properties and superior outdoor durability. Suitable for DTM.
DOMACRYL 5270	75 BAc	max. 3	125 – 145	4000 – 6000	Very long pot-life and super-fast hardness development. Very good balance between hardness and flexibility, with excellent mechanical properties and superior outdoor durability. PATENTED
DOMACRYL 5245	75 BAc	max. 3	125 – 145	2000 – 5000	Extremely fast drying and long pot-life. Superior mechanical properties and outdoor durability. 17% bio-based on solid content. PATENTED
DOMACRYL 5248	75 BAc	max. 3	125 – 145	2000 – 5000	Extremely fast drying and long pot-life. High dry-film-hardness. 17% bio-based on solid content. PATENTED
DOMACRYL 580	67 BAc	4 – 8	110 – 130	3000 – 6000	Clear and top coats with very long pot-life and super-fast hardness development at room temperatures and forced drying. PATENTED
DOMACRYL 5451	50 BAc	max. 3	55 – 70	4000 – 6000	Extremely fast drying fillers. PATENTED
DOMACRYL 5220	45 BAc / X	6 – 12	30 – 40	2000 – 6000	Very good adhesion on plastic substrates (PP, PE, PVC) with good balance between hardness and flexibility.
DOMACRYL 872	60 X	8 – 12		10000 – 15000	Pigmented and transparent paints for plastic. Rapid drying and excellent toughness. Tg = 56 °C.

ALKYD SOLVENTBORNE RESINS

RESIN	DELIVERY FORM	OIL LENGHT / OIL TYPE	ACID VALUE on solid resin [mg KOH/g]	VISCOSITY 23 °C [mPa.s]	DESCRIPTION
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 with very good overall properties. Air and forced drying.

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 5193	70 X	max. 12	95 – 105	2000 – 3000	Primer surfacers and metallic base coats.
DOMOPOL 6052	80 BAc	max. 3	150 – 200	1000 – 2000	For 2K PU coatings as a combination resin for hydroxyl acrylic resins to increase solids content, improve flexibility and outdoor durability in industrial finishes, protective coatings and coatings for plastics.
DOMOPOL 6067	80 BAc	max. 2	130 – 160	1800 – 2600	Can be added to 2K PU systems to improve their flexibility. TIN-free version is available.

ACRYLIC AND **POLYESTER 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]	pH	DESCRIPTION
DOMACRYL 0724	45 Wa / PnB / SA	24 – 30	125 – 145	200 – 1000	7.0 – 8.0	Acrylic secondary dispersion for 2K PU aq. systems. Excellent applicability, resistance and appearance in combination with water-emulsifiable polyisocyanates. 12% bio-based on solid content.
DOMACRYL 0769	45 Wa / BG / SA	20 - 30	100 - 120	200 - 1000	7.0 - 8.5	Standard acrylic secondary dispersion for 2K PU aqueous clear and top coats.
DOMOPOL 5301	60 BG	24 – 28	85 – 95	1300 – 2700		Milling resin. Water-thinnable after neutralization. Good pigment wetting and adhesion.
DOMOPUR 0235	40 Wa			20 - 180	7.0 – 8.5	PU dispersion compatible with acrylic polyols to boost performance of 2K PU aq. systems. Offers higher gloss, chemical and UV resistance.

Ac = Acetone, **APEO** = Alkylphenol ethoxylate, **BAc** = Butyl acetate, **BG** = Butylglycol, **CAB** = Cellulose acetate butyrate, **DTM** = Direct-to-metal, **FA** = Fatty acid, **MAK** = Methyl n-amyl ketone, **MPA** = Methoxy propyl acetate, **nB** = n-Butanol, **PnB** = Propylene glycol monobutyl ether, **SA** = Aromatic solvent 100, **W** = White spirit, **Wa** = Water, **X** = Xylene.
Bio-based content refers to the portion of the resin derived from renewable plant-based feedstocks.

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