RESINS FOR WOOD AND PLASTIC COATINGS

HELIOS RESINS | ATCOAT

HIGH-QUALITY RESINS FOR ADVANCED COATING SOLUTIONS.

THE SECRET INSIDE EXCELLENT PRODUCTS

WOOD AND PLASTIC

THESE HIGH-QUALITY RESINS HAVE BEEN DEVELOPED TO ACHIEVE THE FINEST DECORATIVE WOODEN AND WOOD-LIKE SURFACES.

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 WATERBORNE 1K EMULSIONS

RESIN	DELIVERY FORM	VISCOSITY 23 °C [mPa.s]	pH	MFFT [°C]	BIO-BASED/RECYLED CONTENT (on solid resin [%])	DESCRIPTION
DOMEMUL AA 9673	42 Wa	20 – 250	7.5 – 8.5	7		Self-crosslinking acrylic emulsion for interior and exterior wood coatings. Fast drying and good anti-blocking.
DOMEMUL AA 9672	44 Wa	max. 150	7.5 – 9.5	0		Core-shell acrylic emulsion for interior and exterior wood coatings. Good gloss. Co-resin for improving elasticity.
DOMEMUL AA 9670	40 Wa	100 – 800	7.5 – 9.5	0		Core-shell acrylic emulsion for interior and exterior wood coatings and joinery. Good anti-blocking.
DOMEMUL AA 7962	45 Wa	20 – 250	6.0 – 8.0	0		Core-shell acrylic emulsion for industrial waterborne wood coatings, interior and exterior, especially for furniture, joinery, decorative application with good chemical resistance, wetting, low-foaming, flow and transparency.
DOMEMUL AA 9674	41 Wa	20 – 500	7.0 – 8.0	50		Self-crosslinking acrylic emulsion with OH-functionality for industrial coatings for interior, especially for furniture and joinery non-yellowing enamels with good water, chemical and blocking resistance.
DOMEMUL AA 9678	41 Wa	20 – 500	7.0 – 8.0	50	10	Based on DOMEMUL AA 9674 with 10% bio-based content.
DOMEMUL AA 9679	41 Wa	20 – 500	7.0 – 8.0	50	30	Based on DOMEMUL AA 9674 with 30% recycled content.
DOMEMUL AA 7762	45 Wa	20 – 350	7.5 – 8.5	31		Self-crosslinking acrylic emulsion for waterborne industrial wood finishes, interior. Good chemical and mechanical resistance, wetting, low-foaming, flow and transparency. Hand cream resistance, fast drying and hardness.
DOMEMUL AA 7764	45 Wa	20 – 350	7.5 – 8.5	31	15	Based on DOMEMUL AA 7762 with 15% bio-based content.
DOMEMUL AA 7765	45 Wa	20 – 350	7.5 – 8.5	31	38	Based on DOMEMUL AA 7762 with 38% bio-based and recycled content.
DOMEMUL AA 7777	47 Wa	100-1000	7.0 – 9.0	18		Hydrophobic acrylic dispersion for anti-corrosive applications, stain locking primers and primers for enhanced exterior durability.

ACRYLIC WATERBORNE 2K EMULSIONS

RESIN	DELIVERY FORM	HYDROXL CONTENT on solid resin [mg KOH/g]	VISCOSITY 23 °C [mPa.s]	pH	BIO-BASED/RECYLED CONTENT (on solid resin [%])	DESCRIPTION
DOMEMUL AA 9674	41 Wa	50 – 60	20 – 500	7.0 – 8.0		Self-crosslinking acrylic emulsion with OH-functionality for industrial coatings for interior, especially for furniture and joinery non-yellowing enamels with good water, chemicaland blocking resistance.
DOMEMUL AA 9678	41 Wa	50 – 60	20 – 500	7.0 – 8.0	10	Based on DOMEMUL AA 9674 with 10% bio-based content.
DOMEMUL AA 9679	41 Wa	50 – 60	20 – 500	7.0 – 8.0	30	Based on DOMEMUL AA 9674 with 30% recycled content.
DOMACRYL 0769	45 Wa / BG / SA	100 – 120	200 – 1000	7.0 – 8.5		Standard secondary acrylic dispersion for medium OH PU coatings.
DOMACRYL 0724	45 Wa / PnB / SA	125 - 145	200 – 1000	7.0 – 8.0	12	Acrylic secondary dispersion for 2K PU aq. systems. Excellent applicability, resistance and appearance in combination with water-emulsifiable polyisocyanates.

ALKYD AND POLYURETHANE EMULSIONS

RESIN	DELIVERY FORM	ACID VALUE on solid resin [mg KOH/g]	VISCOSITY 23 °C [mPa.s]	pH	MAX. BIO-BASED CONTENT (on solid resin [%])	DESCRIPTION
DOMALKYD 0460	38 Wa / MP		9000 – 15000	8.0 – 9.0	79	Acrylic modified alkyd emulsion. Top coats and primers for wood or steel substrates. Fast air drying, high gloss, excellent flow and very low-yellowing. Low VOC content.
DOMALKYD 0545	40 Wa	max. 28	50 – 1000	7.0 – 8.0	60	PU modified alkyd emulsion without organic solvents. Rapid air drying, high gloss and hardness, good water and chemical resistance. Approx. 1% hydroxyl content on solid resin.
DOMALKYD 0547	42 Wa	15 – 20	max. 10000	7.5 – 8.5	60	PU modified alkyd emulsion without organic solvents. Very rapid physical drying, high gloss and hardness.
DOMOPUR 0133	36 Wa	30 – 50	2000 – 8000	7.0 – 8.5	47	Aqueous PU dispersion modified with unsaturated fatty acids for paints in spray cans.
DOMOPUR 0215	35 Wa		20 – 100	7.0 – 8.5		Self-crosslinking PU WB dispersion for 1K or 2K parquet lacquers. Non yellowing, high abrasion, chemical, black heel mark, and scratch resistance.
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.
DOMOPUR 0411	35 Wa		20 – 300	7.0 - 9.0		PU dispersion based on polycarbonate polyol. Very good adhesion to plastic and wood substrates. Offers high chemical, water and UV resistance.
DOMOPUR 0632	38 Wa		10 – 500	7.3 - 8.3		Aqueous acrylic modified PU dispersion for radiation curing coatings. Designed for coating of wood, paper and plastic substrates with good stain, scratch and abrasion resistance.

ACRYLIC SOLVENTBORNE 1K RESINS

RESIN	DELIVERY FORM	ACID VALUE on solid resin [mg KOH/g]	VISCOSITY 23 °C [mPa.s]	Tg [°C]	DESCRIPTION
DOMACRYL 833	50 D-30	max. 2	2500 – 3500	21	Pigmented and transparent paints for plastics. Rapid drying. Also for aerosols.
DOMACRYL 840	50 X	5 – 10	4000 – 6000	69	Pigmented and transparent paints with good heat stability, hiding power. Hard, tough and flexible. Also for aerosols.
DOMACRYL 841	50 BAc	max. 10	3000 – 3500	69	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	79	Pigmented and transparent paints for plastic. Gasoline and plasticizers resistant. Also for aerosols.
DOMACRYL 854	65 BAc	15 – 25	5000 – 9000	23	Primers and top coats for plastics. Excellent toughness, rapid drying, high gloss and adhesion.
DOMACRYL 872	60 X	8 – 12	10000 – 15000	56	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 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 5213	50 BAc	7 – 10	35 – 45	3000 – 5000	Very fast drying resin for wood coatings.
DOMACRYL 5214	40 BAc	15 – 20	35 – 45	1800 – 2400	Very hard, used as additive resin in wood coatings.
DOMACRYL 540	50 BAc	5 – 10	40 – 50	3000 – 5000	Self-matting hydroxy acrylic resin for industrial wood two-pack polyurethane furniture. Good balance between hardness and flexibility.
DOMACRYL 5269	51 MEK	max. 4	44 – 55	1800 – 3000	Resin for industrial two-pack PU coatings with good adhesion on plastics.
DOMACRYL 5269	52 BAc	max. 4	45 – 55	3000 – 5000	Long pot-life.
DOMACRYL 505	60 X / BAc	max. 5	45 – 55	1400 – 2400	Elastic resin for primers and top coats.
DOMACRYL 5353	58 X / BAc	max. 10	50 – 75	2500 – 5500	Resin for high gloss furniture coatings.
DOMACRYL 504	60 X / BAc	max. 10	55 – 65	5500 – 7500	Resin for very elastic coatings for plastics. Good compatibility with other OH acrylic resins. Pigment paste resin.
DOMACRYL 545	50 BAc	6 – 12	55 – 70	4000 – 5000	Standard resin for wood coatings.
DOMACRYL 546	50 X / BAc	6 – 12	55 – 70	4000 – 5000	Standard resin for wood coatings.
DOMACRYL 5359	60 BAc	8 – 12	55 – 70	8000 – 10000	Very fast drying varnishes and high solid paints.
DOMACRYL 5451	50 BAc	max. 3	55 – 70	4000 – 6000	Fast drying and very long pot-life, based on DOMACRYL 545, for clear and top coats.
DOMACRYL 539	50 BAc	15 – 20	60 – 70	4000 – 6000	Industrial wood primers. PATENTED
DOMACRYL 5154	80 BAc	max. 10	60 – 80	7000 – 11000	Cost-efficient high-solid two-pack protective systems (top and clear coats) with good mechanical properties and outdoor durability.
DOMACRYL 5267	60 MEK	max. 5	90 – 100	3000 – 5000	Resin for industrial two-pack PU coatings with good adhesion on plastics.

REACTIVE RESINS

RESIN	DELIVERY FORM	VISCOSITY 23 °C [mPa.s]	OIL LENGHT / OIL TYPE	HYDROXYL VALUE on solid resin [mg KOH/g]	ACID VALUE on solid resin [mg KOH/g]	DESCRIPTION
DOMALKYD 1435	66 BAc	600 – 1200	43% Tall oil FA		15 – 25	Lacquers and enamels for wood in combination with NC and urea resins. Very fast drying properties.
DOMALKYD 4161	70 BAc	1000 – 1500	16% Saturated FA	260 – 300	max. 4	2K PU for wood parquet lacquers.
DOMALKYD 4333	70 BAc	1400 – 2000	33% Soyabean FA	70 – 110	23 – 35	Lacquers and enamels for wood in combination with NC in AC lacquers.
DOMALKYD 4348	70 BAc	8000 – 10000	34% Vegetable FA	70 – 90	max. 20	Lacquers for wood in combination with NC, forced drying paints in combination with amino resins.
DOMALKYD 4383	70 BAc	3000 – 4500	38% Soyabean oil	120 – 145	max. 10	Lacquers and enamels for wood in combination with NC.
DOMALKYD 4402	75 BAc	3000 – 5000	40% Vegetable FA		max. 20	AC lacquers and paints for wood.
DOMALKYD 4411	75 BAc	1800 – 2400	41% Soyabean FA		max. 10	NC lacquers and enamels for wood, pigment pastes.
DOMALKYD 5331	75 BAc	6000 – 10000	33% Synthetic FA	140 – 160	6 – 10	2K PU coatings for wood.
DOMALKYD 5421	75 BAc	2000 – 3500	42% Coconut FA	150 – 200	max. 10	High quality NC and AC lacquers for wood, 2K PU lacquers for furniture.
DOMOPOL 1352	100 %	9000 – 13000	Polyester polyol	45 – 60	0 – 4	Linear hydroxyl-bearing polyester resin used in 2K PU flexible solvent-free coatings and sealers.
DOMOPOL 6181	75 X	6000 – 9000	Polyester polyol	145 – 180	max. 15	2K PU coatings for wood (parquet, boats). Good pigment wetting and chemical resistant properties.

UV/EB CURABLE RESINS

RESIN	DELIVERY FORM	VISCOSITY 23 °C [mPa.s]	DESCRIPTION
DOMOPUR 0632	38 Wa	10 - 500	Aqueous acrylic modified PU dispersion for radiation curing coatings. Designed for coating of wood, paper and plastic substrates with good stain, scratch and abrasion resistance.
COLPOLY 755 U	43 DPGDA	4000 – 5500	Unsaturated polyester resin for radiation curable putties, primers, and topcoats for different substrates, especially for wood.
ATRELUX UV6154/54 BA	54 BAc	2500 - 4000	Hydroxyl group containing polyacrylic acrylate, curing with isocyanate and radiation (dual cure), non-adhesive and scratch-resistant, for non-yellowing coatings.
ATRELUX UV100	100%	40-60 sec.	Radiation curing polyester acyrylate, modified with natural fatty acids, for primers, top coats and fillers, good adhesion on wood, very low viscosity, suitable for printing inks. 30% bio-based on solid content.
ATRELUX UV1500	100%	4000 - 6000	Polyester acrylic resin for the formulation of UV and electron beam curing varnishes, lacquers, and paints. It is a nearly colourless resin with good reactivity. It forms elastic, scratch and chemical-resistant films with good adhesion properties even on plastic surface.

AC = Acid curing, **BAc** = Butyl acetate, **BG** = Butylglycol, **D-30** = Dearomatized white spirit, **DCO** = Dehydrated castor oil, **DPGDA** = Dipropylene glycol diacrylate, **DPM** = Dipropylene glycol monomethyl ether, **FA** = Fatty acid, **ISCC** = International Sustainability and Carbon Certification, **MP** = Methoxypropanol, **MPA** = Methoxy propyl acetate, **NC** = Nitrocellulose, **PnB** = Propylene glycol monobutyl ether, **SA** = Aromatic solvent 100, **Wa** = Water, **X** = Xylene. Bio-based/recycled content refers to the portion of the resin derived from renewable plant-based or recycled feedstocks and/or attributed to ISCC PLUS certified content under the mass balance approach.
Max. bio-based/recycled content refers to the portion of the resin derived from renewable plant-based or recycled feedstocks and/or attributed to ISCC PLUS certified content under the mass balance approach. The validity of the ISCC PLUS certificate can be verified via the official website (https://iscc-system.org/).

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