



# WOOD AND PLASTIC



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

RESINS SUPPLIER SINCE 1908.

## WOOD AND PLASTIC

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

### 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

## 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]	APPLICATION
DOMACRYL 504	60 X / BAc	10 – 15	55 – 65	5500 – 7500	Resin for very elastic 2K industrial coatings for plastics. Good compatibility with other OH acrylic resins. Pigment paste resin.
DOMACRYL 505	60 X / BAc	max. 5	45 – 55	1400 – 2400	Elastic resin for industrial primers and top-coats for wood and plastic.
DOMACRYL 505	60 BAc	max. 5	45 – 55	1100 – 2500	Elastic resin for industrial primers and top-coats for wood and plastic.
DOMACRYL 539	50 BAc	15 – 20	60 – 70	4000 – 6000	Industrial wood primers.
DOMACRYL 545	50 BAc	max. 15	55 – 70	4000 – 5000	Standard resin for 2K wood coatings.
DOMACRYL 546	50 X / BAc	max. 15	55 – 70	4000 – 5000	Standard resin for 2K wood coatings.
DOMACRYL 568	60 X / MPA	max. 10	55 – 65	3000 – 5000	Good adhesion on plastics.
DOMACRYL 568	60 X	max. 10	55 – 65	3000 – 5000	Good adhesion on plastics.
DOMACRYL 5213	50 BAc	max. 10	35 – 45	3000 – 5000	Very quick drying resin for industrial 2K wood coatings.
DOMACRYL 5214	40 BAc	15 – 20	35 – 45	1800 – 2400	Very hard, used as additive resin in wood 2K coatings.
DOMACRYL 5269	52 X / MPA	max. 4	45 – 55	3000 – 5000	Industrial 2K. Long pot-life.
DOMACRYL 5319	50 BAc	16 – 22	55 – 65	4000 – 5000	Industrial wood primers and furniture finishes. Very fast drying.
DOMACRYL 5353	58 X / BAc	7 – 9	60 – 80	2500 – 5500	High solid solvent-borne acrylic for industrial 2K PUR coatings.
DOMACRYL 5359	60 BAc	8 – 12	55 – 70	8000 – 10000	Very fast drying industrial 2K varnishes. Higher solid paints.

## ACRYLIC SOLVENTBORNE 1K RESINS

RESIN	DELIVERY FORM	ACID VALUE on solid resin [mg KOH/g]	VISCOSITY 23 °C [mPa.s]	Tg [°C]	APPLICATION
DOMACRYL 840	50 X / SA	5 – 10	4000 – 6000	62	Pigmented and transparent paints for metal and plastics.
DOMACRYL 846	50 X / SA	5 – 10	3000 – 4500	72	Paints for plastics have very good adhesion and high gloss.
DOMACRYL 847	50 BAc	5 – 10	3500 – 5000	66	Pigmented and transparent paints for metal and plastics.
DOMACRYL 854	65 BAc	15 – 25	5000 – 9000	14	Air drying polyacrylic resin used for the preparation of primers and top coats. It excels in rapid drying and excellent toughness.
DOMACRYL 872	60 X	8 – 12	10000 – 15000	50	Pigmented and transparent paints for plastics. Gasoline and plasticisers resistant.

## LONG OIL ALKYD SOLVENTBORNE RESINS

RESIN	DELIVERY FORM	ACID VALUE on solid resin [mg KOH/g]	VISCOSITY 23 °C [mPa.s]	OIL LENGHT / OIL TYPE	APPLICATION
DOMALKYD 1526	55 W	max. 15	2000 – 3000	52% Soyabean oil	Pigment pastes for combination with medium oil air-drying alkyd resins. Finishes for wood with excellent weather resistance.
DOMALKYD 1666	75 D-40 / MP	max. 10	2000 – 3000	66% Soyabean F. A.	Low VOC standard resin for high gloss paints and lacquers for wood.
DOMALKYD 1666	75 D-60	max. 10	2000 – 3000	66% Soyabean F. A.	Low VOC standard resin for high gloss paints and lacquers for wood.
DOMALKYD 1673	60 D-60	max. 10	3000 – 4500	67% Soyabean oil	Standard resin for decorative paints and lacquers for wood.
DOMALKYD 1685	75 D-40	max. 10	5000 – 7000	68% Soyabean oil	General purpose binder for paints for wood.
DOMALKYD 1722	70 D-60	max. 10	500 – 900	72% Soyabean oil	Standard resin for wood lacquers, stains and paints. Very good weather resistance (with isophthalic acid modified).
DOMALKYD 1755	70 D-60	max. 10	750 – 1000	75% Soyabean oil	Standard resin for wood lacquers, stains and paints. Very good weather resistance (with isophthalic acid modified).
DOMALKYD 1755 LV	100%	max. 10	6000 – 8000	75% Soyabean oil	Low VOC lacquers, stains and paints for wood. Very good weather resistance (with isophthalic acid modified).
DOMALKYD 2645	100%	max. 7	7000 – 11000	64% Linseed oil	Universal binder for pigment pastes used for paints and stains.
DOMALKYD 2755 LV	100%	max. 15	2000 - 3000	80% Linseed oil	Low viscosity drying alkyd for production of high solid paint system, low VOC.
DOMALKYD 7625	60 D-40	max. 5	2200 - 2800	62 % Soyabean oil	Universal finishes for wood specially recommended for floors, boats and furniture.

## ACRYLIC WATERBORNE EMULSIONS

RESIN	DELIVERY FORM	VISCOSITY 23 °C [mPa.s]	MFFT [°C]	pH	APPLICATION
DOMEMUL AA 7695	40 Wa	50 – 500	29	7,5 – 9	Self-crosslinking acrylic emulsion, used for the preparation of industrial waterborne interior wood finishes, with good chemical resistances, wetting, low-foaming, flow and transparency.
DOMEMUL AA 7960	45 Wa	20 – 250	0	6 – 8	Core-shell emulsion for wood coatings. Good anti-blocking resistance, for joinery and furniture, decorative application.
DOMEMUL AA 9670	40 Wa	100 – 800	0	7,5 – 9,5	Acrylic emulsion, used for the preparation of industrial waterborne wood for interior and exterior, is recommended for furniture, joinery, decorative application, with non yellowing, good wetting.
DOMEMUL OHA 9200	45 Wa	20 – 600		7,5 – 9	2K styrene-acrylic OH-functional (Approx. 2.75 % Hydroxyl content on solid resin). Tg = 53
DOMEMUL RA 9675	35 Wa	50 – 1000	0	6 – 7	Primary emulsion, used for the preparation of industrial waterborne paint for metal, plastic, wood.
DOMEMUL SA 2700	50 Wa	100 – 800	90	8 – 9,5	Acrylic latex resin for effect pigmented coatings (metallic, xyralic).
DOMEMUL SA 9262 (APEO-free)	42 Wa	50 – 250	30	8 – 8,5	APEO-free copolymer emulsion, used for the preparation of industrial waterborne coating for high performance electronics (TV, Hi-Fi,...) applications, good water and chemical resistances.
DOMEMUL SA 9262	42 Wa	50 – 250	30	8 – 8,5	Styrene-acrylic emulsion, used for industrial waterborne paint for plastic and wood.
DOMEMUL SA 9263 (APEO-free)	40 Wa	20 – 350	45	8 – 8,5	Styrene-acrylic emulsion, used for industrial waterborne paint for plastic and wood.

## REACTIVE RESINS

RESIN	DELIVERY FORM	VISCOSITY 23 °C [mPa.s]	OIL LENGTH / OIL TYPE	HYDROXYL VALUE on solid resin [mg KOH/g]	ACID VALUE on solid resin [mg KOH/g]	APPLICATION
DOMALKYD 1435	66 BAc	600 – 1200	43% Talloil F. A.	/	15 – 25	Mainly used in lacquers and enamels for wood in combination with nitrocellulose, urea resins or in combination with amino resins for stoving primers. It excels in very good adhesion, good anticorrosion and fast drying properties.
DOMALKYD 3381	65 X	10000 – 15000	38% DCO F.A.	/	max. 25	Reactive resin for combination with melamine and alkyd resins. NC and AC curing lacquers.
DOMALKYD 4161	70 BAc	1000 – 1400	16% Saturated F.A.	230 – 280	max. 5	2K PUR lacquers for wood (parquet lacquers).
DOMALKYD 4161	80 BAc	5000 – 7000	16% Saturated F.A.	230 – 280	max. 5	2K PUR lacquers for wood (parquet lacquers).
DOMALKYD 4333	70 BAc	2200 – 2800	33 % Mixed F. A.	/	max. 5	Lacquers and enamels for wood in combination with nitrocellulose in acid curing lacquers.
DOMALKYD 4348	70 BAc	8000 – 10000	34% Vegetable F. A.	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	/	max. 10	Can be used in lacquers and enamels for wood in combination with nitrocellulose.
DOMALKYD 4402	75 BAc	3000 – 5000	40 % Vegetable F. A.	/	max. 20	AC curing lacquers and paints for wood.
DOMALKYD 4411	75 BAc	1800 – 2400	41% Soyabean F. A.	/	max. 10	NC lacquers and enamels for wood, pigment pastes.
DOMALKYD 5254	70 BAc	3000 – 6000	25% Castor oil	160 – 200	max. 17	Fast drying 2K PUR lacquers for wood.
DOMALKYD 5308	60 X	2000 – 3000	30% 12-Hydroxy stearic acid	170 – 200	max. 10	Can be used as hydroxyl component alone or in combination with other hydroxyl components (Domalkyd 5322) in polyurethane finishes. It is suitable for preparation of pigment pastes.
DOMALKYD 5322	50 X	250 – 350	32 % 12-Hydroxy stearic acid	150 – 180	max. 17	Can be used as hydroxyl component alone or in combination with other hydroxyl components (Domalkyd 5308) in polyurethane finishes. It is suitable for preparation of pigment pastes.
DOMALKYD 5331	75 BAc	6000 – 10000	33% Synthetic F. A.	140 – 160	max. 10	Wood 2K PUR coatings.
DOMALKYD 5421	75 BAc	2000 – 3500	42 % Coconut F. A.	150 – 200	max. 10	High quality NC and AC curing lacquers for wood, 2K PUR lacquers for furniture.
DOMALKYD 5435	60 X / SA	2500 – 3500	43% Synthetic F.A.	/	max. 15	Industrial finishes for metal in combination with DCO alkyd and melamine resins. Universal pigment pastes for NC and stoving finishes.
DOMALKYD 5451	60 X / SA	4000 – 5000	45% Synthetic F.A.	/	max. 15	Universal pigment pastes for NC and stoving finishes. High gloss 2K PUR lacquers for wood.
DOMALKYD 5571	70 BAc	1300 – 1800	40% Castor oil	160 – 180	10 – 12	Medium reactive alkyd resin intended for crosslinking with isocyanate resins. It is used air-forced two-pack drying systems for wood with excellent mechanical properties. It is used for preparation of pigmented pastes.
DOMOPOL 6181	75 X	6000 – 9000	Polyester polyol	145 – 180	max. 15	2K polyurethane coatings for wood (parquet, boats), industrial finishes. Good pigment wetting and chemical resistant properties.

## UV CURABLE RESIN

RESIN	DELIVERY FORM	ACID VALUE on solid resin [mg KOH/g]	VISCOSITY 23 °C [mPa.s]	APPLICATION
DOMOPOL 105 UV	100%	max.5	10000 – 14000	100 % solid content acrylated polyester resin suitable for making UV and electron-beam curing paints, lacquers and printing inks. Excellent adhesion on wood, paper and various plastics



ISO 9001  
ISO 14001

BUREAU VERITAS  
Certification



European company  
Global delivery

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