



2019
EDITION

WOOD AND PLASTIC

 **HELIOS** RESINS



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 Helios, now part of Kansai Paint, one of the world's leading paint and coatings producers. Today, Helios Resins produces around 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, DOMEMUL and DOMOPUR – have achieved a strong market position and are trusted for their quality and performance. We currently serve more than 50 countries worldwide.

QUALITY OF SERVICE

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

DEVELOPED WITH ADVANCED TECHNOLOGIES

Our laboratories and production facilities are fully equipped with the most advanced technologies, which enables 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. We are constantly upgrading our production lines and increasing our production capacities to meet the highest demands of our customers. In 2018 we introduced a new reactor line for water-based resins.

OUR STRENGTHS

- FLEXIBILITY
- ON-TIME DELIVERY
- HIGH QUALITY

ACRYLIC WATERBORNE 1K EMULSIONS

RESIN	DELIVERY FORM	VISCOSITY 23 °C [mPa.s]	pH	MFFT [°C]	DESCRIPTION
DOMEMUL AA 7960	45 Wa	20 – 250	6.0 – 8.0	0	Core-shell emulsion for wood coatings, joinery and furniture. Good anti-blocking. APEO-free version is available by request.
DOMEMUL AA 9670	40 Wa	100 – 800	7.5 – 9.5	0	Core-shell APEO-free acrylic emulsion for interior and exterior wood coatings and joinery. Good anti-blocking.
DOMEMUL AA 9672	44 Wa	max. 150	7.5 – 9.5	0	Core-shell APEO-free acrylic emulsion for interior and exterior wood coatings. Good gloss.
DOMEMUL AA 9673	42 Wa	20 – 250	7.5 – 8.5	7	Self-crosslinking APEO-free acrylic emulsion for interior and exterior wood coatings. Fast drying and good anti-blocking.
DOMEMUL AA 7760	41 Wa	20 – 500	7.5 – 9.0	32	Self-crosslinking APEO-free acrylic emulsion for interior wood coatings. Good chemical and mechanical resistance.
DOMEMUL RA 9675	35 Wa	50 – 1000	6.0 – 7.0	0	Acrylic APEO-free latex for effect pigmented coatings (metallic, pearlescent).
DOMEMUL SA 9262	42 Wa	50 – 250	8.0 – 8.5	30	Styrene-acrylic emulsion with good mechanical and chemical resistance. APEO-free version is available by request.
DOMEMUL SA 9263	40 Wa	20 – 350	8.0 – 8.5	45	Styrene-acrylic APEO-free emulsion. Harder than DOMEMUL SA 9262.
DOMEMUL SA 2700	50 Wa	100 – 800	8.0 – 9.5	90	Acrylic APEO-free emulsion. Good water and chemical resistance.

ACRYLIC WATERBORNE 2K EMULSIONS

RESIN	DELIVERY FORM	HYDROXYL CONTENT on solid resin [mg KOH/g]	VISCOSITY 23 °C [mPa.s]	pH	DESCRIPTION
DOMEMUL OHA 9200	45 Wa	70 – 100	20 – 600	7.5 – 9.0	OH-functional styrene-acrylic primary emulsion for low VOC coatings. Tg = 53. Cost-efficient.
DOMACRYL 0707	43 Wa / DPM	100 – 120	100 – 3000	8.0 – 9.0	Modified acrylic secondary dispersion. Very flexible. Good wet-on-wet application.
DOMACRYL 0769	45 Wa / BG / SA	100 – 120	200 – 1000	7.0 – 8.5	Standard secondary acrylic dispersion for medium OH PUR coatings.
DOMACRYL 0724	45 Wa / PnB / SA	125 – 145	200 – 1000	7.0 – 8.0	Acrylic secondary dispersion. Standard resin with excellent applicability, chemical resistance and appearance.

ALKYD WATER EMULSIONS

RESIN	DELIVERY FORM	VISCOSITY 23 °C [mPa.s]	MODIFICATION / OIL LENGHT	pH	DESCRIPTION
DOMALKYD 0460	38 Wa / MP	9000 – 15000	Acrylic modified, 56%	8.0 – 9.0	Top coats and primers. Fast air drying, high gloss, excellent flow and very low-yellowing. Low VOC content.
DOMALKYD 0461	38 Wa / BG	2000 – 10000	Acrylic modified, 56%	7.5 – 9.0	Styrene-free emulsion for top coats and primers. Fast air drying, high gloss, excellent flow and very low-yellowing. Low VOC content.
DOMALKYD 0545	40 Wa	50 – 500	PU modified, 44%	7.0 – 8.0	Rapid air drying, high gloss and hardness, good water and chemical resistance. Approx. 1% Hydroxyl content on solid resin. Without organic solvent.

POLYURETHANE DISPERSIONS

RESIN	DELIVERY FORM	ACID VALUE on solid resin [mg KOH/g]	VISCOSITY 23 °C [mPa.s]	pH	DESCRIPTION
DOMOPUR 0211	36 Wa	20 – 25	20 – 400	7.5 – 9.0	Very flexible, very good adhesion on ABS, PC, PVC, PU, PA and PS, very good pigmentability. A good plasticizer barrier on PVC-foils. Without organic solvents.
DOMOPUR 0231	40 Wa	15 – 20	100 – 1000	7.0 – 8.0	Based on aliphatic polyester-isocyanate. Good anti-blocking and abrasion resistance. Without organic solvents.

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	56	Pigmented and transparent paints for plastics. Rapid drying. Also for aerosols.
DOMACRYL 840	50 X / SA	5 – 10	4000 – 6000	62	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	62	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	72	Pigmented and transparent paints for plastic. Gasoline and plasticizers resistant. Also for aerosols.
DOMACRYL 854	65 BAc	15 – 25	5000 – 9000	14	Primers and top coats for plastics. Excellent toughness, rapid drying, high gloss and adhesion.
DOMACRL 872	60 X	8 – 12	10000 – 15000	50	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 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 505	60 X / BAc	max. 5	45 – 55	1400 – 2400	Elastic resin for primers and top coats.
DOMACRYL 5269	52 BAc	max. 4	45 – 55	3000 – 5000	Long pot-life.
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 568	60 X / MPA	max. 10	55 – 65	3000 – 5000	Universal resin for industrial paints.
DOMACRYL 568	60 X	max. 10	55 – 65	3000 – 5000	Universal resin for industrial paints.
DOMACRYL 5319	50 BAc	16 – 22	55 – 65	4000 – 5000	Industrial wood primers and furniture finishes. Very fast drying.
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.

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]	DESCRIPTION
DOMALKYD 1435	66 BAc	600 – 1200	43% Talloil FA		15 – 25	Lacquers and enamels for wood in combination with NC and urea resins. Very fast drying properties.
DOMALKYD 3381	65 X	10000 – 15000	38% DCO		max. 25	Resin for combination with melamine and alkyd resins. NC and AC lacquers.
DOMALKYD 4161	70 BAc	1000 – 1500	16% Saturated FA	260 – 300	max. 4	2K PUR 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		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 5254	70 BAc	3000 – 6000	25% Castor oil	160 – 200	max. 17	Fast drying 2K PUR lacquers for wood.
DOMALKYD 5331	75 BAc	6000 – 10000	33% Synthetic FA	140 – 160	6 – 10	2K PUR 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 PUR lacquers for furniture.
DOMOPOL 6181	75 X	6000 – 9000	Polyester polyol	145 – 180	max. 15	2K PUR coatings for wood (parquet, boats). 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]	DESCRIPTION
DOMOPOL 105 UV	100%	max. 5	20000 – 30000	Acrylated polyester resin soluble in reactive solvent, suitable for UV and electron-beam curing paints lacquers and printing inks. Excellent adhesion on wood, paper and various plastics. Also for 3D printing material.
DOMOPOL 106 UV	100%	max. 5	max. 1000	More flexible than DOMOPOL 105 UV with lower viscosity.

AC = Acid curing, APEO = Alkylphenol ethoxylate, BAc = Butyl acetate, BG = Butylglycol, D-30 = Dearomatized white spirit, DCO = Dehydrated castor oil, DPM = Dipropylene glycol monomethyl ether, FA = Fatty acid, MP = Methoxypropanol, MPA = Methoxy propyl acetate, NC = Nitrocellulose, PnB = Propylene glycol monobutyl ether, SA = Aromatic solvent 100, Wa = Water, X = Xylene.



ISO 9001
ISO 14001

BUREAU VERITAS
Certification



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