



2022
EDITION

DECORATIVE

 **HELIOS** RESINS

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

RESINS SUPPLIER SINCE 1908.

DECORATIVE

OUR RESINS FOR DECORATIVE COATINGS ENSURE BEAUTIFUL COLOURS AND A RELIABLE PROTECTION.

GOLDEN RESINS

Helios Resins is a separate business unit of KANSAI HELIOS, now part of Kansai Paint, one of the world's leading paint and coatings producers. Today, Helios Resins produces around 70,000 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 WATER EMULSIONS

RESIN	DELIVERY FORM	VISCOSITY 23 °C [mPa.s]	pH	MFFT [°C]	DESCRIPTION
DOMEMUL AA 9673	42 Wa	20 – 250	7.5 – 8.5	7	Self-crosslinking APEO-free acrylic emulsion for interior and exterior coatings, joinery. Fast drying and good anti-blocking.
DOMEMUL AA 9672	44 Wa	max. 150	7.5 – 9.5	0	Acrylic core-shell APEO-free emulsion designed for interior and exterior wood coatings.
DOMEMUL AA 9670	40 Wa	100 – 800	7.5 – 9.5	0	Core-shell APEO-free acrylic emulsion for interior and exterior coatings, joinery. Good anti-blocking.
DOMEMUL AA 7962	45 Wa	20 – 250	6.0 – 8.0	0	Core-shell APEO-free acrylic emulsion for waterborne wood coatings with good chemical resistance, wetting, low-foaming, flow and transparency.
DOMEMUL AA 7760	41 Wa	20 – 500	7.5 – 9.0	32	Self-crosslinking APEO-free acrylic emulsion for interior wood finishes. Good chemical and mechanical resistance.
DOMEMUL AA 7762	45 Wa	20 – 350	7.5 – 8.5	31	Surfactant-low acrylic emulsion for waterborne wood finishes, interior. Good chemical and mechanical resistance, wetting, low-foaming, flow and transparency. Hand cream resistance, fast drying and hardness.
DOMEMUL SA 9262	42 Wa	50 – 250	8.0 – 8.5	30	Styrene-acrylic APEO-free emulsion for metal, plastic and wood. Good mechanical and chemical resistance.
DOMEMUL SA 9263	40 Wa	20 – 350	8.0 – 8.5	45	Styrene-acrylic APEO-free emulsion for metal, plastic and wood. Harder than DOMEMUL SA 9262.
DOMEMUL SA 9270	47 Wa	100 – 1000	7.0 – 9.0	18	Designed for anti-corrosive applications, stain blocking primers and primers for enhanced exterior durability. Especially suitable for DTM.

ALKYD AND POLYURETHANE EMULSIONS

RESIN	DELIVERY FORM	ACID VALUE on solid resin [mg KOH/g]	VISCOSITY 23 °C [mPa.s]	pH	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 0461	38 Wa / BG		2000 – 10000	7.5 – 9.0	75 	Styrene-free acrylic modified alkyd emulsion. 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 polyurethane dispersion modified with unsaturated fatty acids for paints in spray cans.
DOMOPUR 0211	36 Wa	20 – 30	20 – 400	7.5 – 9.0		Solvent-free PU dispersion. Very flexible, very good adhesion on ABS, PC, PVC, PU, PA and PS, very good pigmentability. A good plasticizer barrier on PVC-foils.
DOMOPUR 0231	40 Wa	15 – 25	100 – 1000	7.0 – 8.0		Solvent-free PU dispersion. Based on aliphatic polyester-isocyanate. Good blocking and abrasion resistance.



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 1666	75 D-60	68% Soyabean FA	max. 10	4000 – 6000	Standard resin for high gloss paints and lacquers for wood and metal.
DOMALKYD 1673	60 D-60	67% Soyabean oil	max. 10	3000 – 4500	Standard resin for decorative paints and lacquers for metal and wood.
DOMALKYD 1685	75 D-40	68% Soyabean oil	max. 10	5000 – 7000	General purpose binder for paints for metal and wood.
DOMALKYD 1755	70 D-60	75% Soyabean oil	max. 10	750 – 1000	Standard resin for wood lacquers, stains and paints. Very good weather resistance modified with isophthalic acid.
DOMALKYD 1755 LV	100%	75% Soyabean oil	max. 10	6000 – 8000	Low VOC lacquers, stains and paints for wood. Very good weather resistance modified with isophthalic acid.
DOMALKYD 2645	100%	64% Linseed oil	max. 7	7000 – 11000	Universal binder for pigment pastes used for paints and stains.
DOMALKYD 2755 LV	100%	80% Linseed oil	max. 15	2000 - 3000	Low viscosity drying alkyd for production of high solid low VOC paint system.
DOMALKYD 7575	55 D-40	57% Soyabean FA	max. 5	3000 – 4500	Aliphatic urethane (IPDI) alkyd resin for non-yellowing decorative enamels for wood and metal. Good outdoor durability.
DOMALKYD 7625	60 D-40	62% Soyabean oil	max. 5	2200 – 2800	Aromatic urethane (TDI) alkyd resin for universal finishes for wood, specially recommended for floors, boats and furniture.
DOMALKYD 7703	85 D-40	70% Mixed FA	max. 5	4000 – 6000	Aliphatic urethane (IPDI) alkyd resin used for the preparation of universal pigmented paints and clear finishes for wood.

ACRYLIC THERMOPLASTIC SOLVENTBORNE RESINS

RESIN	DELIVERY FORM	ACID VALUE on solid resin [mg KOH/g]	VISCOSITY 23 °C [mPa.s]	Tg VALUE (theoretical) [°C]	DESCRIPTION
DOMACRYL 820	58 X	max. 10	20000 – 24000	56	High-grade masonry paints.
DOMACRYL 830	50 D-60 / SAB	max. 10	2400 – 3500	–7	Masonry paints, concrete paints. High flexibility.
DOMACRYL 830	50 W	max. 10	2400 – 3500	–7	Masonry paints, concrete paints. High flexibility.
DOMACRYL 833	50 D-30	max. 2	2500 – 3500	56	Exterior flexible protective coatings. Excellent solubility in aliphatic solvent. Also for aerosols.
DOMACRYL 835	50 BAc	5 – 10	3000 – 5000	47	Universal resin for protective coatings, using alone or in combination with vinyl resins. Good durability and abrasion resistance.
DOMACRYL 836	50 X / SA	5 – 10	1000 – 3000	68	General purpose binder for paints for metal, wood and plastics. Gasoline and plasticizers resistant.
DOMACRYL 8383	65 D-40	max. 3	2000 – 3000	–	As a combination resin for optimization of different characteristics with long oil alkyd resins, air drying resin.
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 – 4000	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	72	Pigmented and transparent paints also for plastic. Gasoline and plasticizers resistant. Also for aerosols.
DOMACRYL 854	65 BAc	15 – 25	5000 – 9000	14	Primers and top coats for nonferrous metals and plastics. Excellent toughness, rapid drying, high gloss and adhesion.

APEO = Alkylphenol ethoxylate, BAc = Butyl acetate, BG = Butylglycol, D-30 = Dearomatized white spirit, D-40 = Dearomatized white spirit, D-60 = Dearomatized white spirit, DTM = Direct-to-metal, FA = Fatty acid, ISCC = International Sustainability and Carbon Certification, IPDI = Isophorone diisocyanate, MP = Methoxypropanol, SA = Aromatic solvent 100, SAB = Aromatic solvent 150 ND, TDI = Toluene diisocyanate, W = White spirit, Wa = Water, X = Xylene.



ISO 9001
ISO 14001
BUREAU VERITAS
Certification



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