



2019
EDITION

ROAD MARKING

ROAD MARKING

OUR ADVANCED TECHNOLOGY
RESINS ENSURE PREMIUM
DURABILITY AND RELIABILITY FOR
ROAD MARKING MATERIALS.

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



HELIOS

RESINS,

HIGH-QUALITY

RESINS FOR

RELIABLE

COATING

SOLUTIONS.

1K ROAD MARKING RESINS

RESIN	DELIVERY FORM	ACID VALUE on solid resin [mg KOH/g]	VISCOSITY 23 °C [mPa.s]
SOLVENT BASED RESINS			
DOMACRYL 825	50 BAc	max. 13	300 – 700
DOMACRYL 835	50 BAc	5 – 10	3000 – 5000
DOMACRYL 840	52 T	5 – 10	3200 – 3700
DOMACRYL 841	50 BAc	max. 10	3000 – 3500
DOMACRYL 850	50 T	5 – 10	3000 – 3500
DOMACRYL 850	60 T	5 – 10	10000 – 20000
DOMACRYL 853	55 BAc	7 – 15	900 – 1600
DOMACRYL 855	60 T	5 – 10	800 – 2000
DOMACRYL 856	60 T	5 – 10	800 – 3000
DOMACRYL 865	60 BAc	20 – 32	1200 – 1800
WATER BASED RESIN			
DOMEMUL AA 7601	44 Wa		max. 1000

2K ROAD MARKING RESINS

RESIN	VISCOSITY 23 °C [mPa.s]	REACTIVITY
DOMACRYL 933	60 – 90	very low (30 min., 5% BP)
DOMACRYL 935	90 – 100	very low (30 min., 5% BP)
DOMACRYL 939	90 – 100	not pre-accelerated
DOMACRYL 926	180 – 250	low (20 min., 5% BP)
DOMACRYL 929	150 – 200	low (20 min., 5% BP)
DOMACRYL 930	200 – 280	low (20 min., 5% BP)
DOMACRYL 975	20 – 60	medium (15 min., 5% BP)
DOMACRYL 948	300 – 350	medium (15 min., 5% BP)
DOMACRYL 937	20 – 25	medium (18 min., 7% BP)
DOMACRYL 938	80 – 120	medium (18 min., 5% BP)
DOMACRYL 992	100 – 140	medium (18 min., 5% BP)
DOMACRYL 955	50 – 60	high (10 min., 3% BP)
DOMACRYL 920	100 – 130	high (7 min., 3% BP)
DOMACRYL 922	100 – 130	not pre-accelerated
DOMACRYL 940	100 – 140	high (7 min., 3% BP)
DOMACRYL 942	100 – 140	not pre-accelerated
DOMACRYL 941	140 – 160	high (7 min., 3% BP)
DOMACRYL 943	140 – 160	not pre-accelerated
DOMACRYL 945	50 – 70	high (7 min., 3% BP)
DOMACRYL 949	40 – 60	not pre-accelerated
DOMACRYL 980	180 – 220	very high (3 min., 3% BP)

BAc = Butyl acetate, BP = Benzoyl peroxide, T = Toluene, Wa = Water.

Tg [°C]	DESCRIPTION
7	Softer thermoplastic acrylic resin, used alone or in combination with other resins (like DOMACRYL 841), non-yellowing.
41	Thermoplastic acrylic resin for cold climatic areas, good durability, non-yellowing.
62	Standard thermoplastic resin for the preparation pigmented and transparent paints, general purpose.
62	The same as above in non-aromatic solvent, general purpose.
14	Styrene-acrylic resin for hot climatic areas, good durability. Used alone or with other resins.
14	Styrene-acrylic resin for hot climatic areas, good durability. Used alone or with other resins.
5	Styrene-acrylic resin, general purpose. Excellent drying and toughness.
-5	Softer thermoplastic resin with excellent drying, used alone or in combination with other resins.
32	Styrene-acrylic resin, general purpose, good durability and drying. Used alone or with other resins.
23	Styrene-acrylic resin, modified with drying oils. Good durability, low tendency to soiling.
Acrylic emulsion for pigmented paints, fast drying at low temperature and high humidity. MFFT= 30°C, pH=8-10.	

DESCRIPTION
Laying thickness 0,6 – 1 mm, low viscosity, very soft resin. Suitable for roller application.
Laying thickness 1 – 2 mm, manual application on asphalt and concrete surfaces. Used alone or in combination with DOMACRYL 939.
Used in combination with DOMACRYL 935.
Laying thickness 1,5 – 2 mm, standard resin for manual application on asphalt and concrete surfaces.
Used for marking of pedestrian crossings, stop lines, direction arrows and safety markings with increased night visibility. Suitable for manual application, particularly with smoothing trowels.
Laying thickness 1,5 – 3 mm, high viscosity, for profiled, textured markings, trowel, line marker. Used with plasticizers (high hardness of resin).
Polyester resin used for marking of pedestrian crossings, stop lines, direction arrows and safety markings. Suitable for manual application with smoothing trowels or application with draw box units.
Laying Thickness 1 – 2 mm, suitable for manual application on large areas such as bicycle lanes.
Laying thickness 1 – 2 mm, very low viscosity, suitable for manual application, for normal temperatures.
Laying thickness 1 – 2 mm, standard resin for manual application on asphalt and concrete surfaces.
Laying thickness 1 – 2 mm, very soft and elastic resin for manual application.
Laying thickness 0,4 – 1,2 mm, spray application on asphalt and concrete surfaces. Used with plasticizers (high hardness of resin).
Laying thickness 0,4 – 0,8 mm, spray application on asphalt and concrete surfaces. Used in combination with DOMACRYL 922.
Used in combination with DOMACRYL 920.
Laying thickness 0,4 – 0,8 mm, spray application on asphalt and concrete surfaces. Used in combination with DOMACRYL 942.
Used in combination with DOMACRYL 940.
Laying thickness 0,3 – 0,8 mm, spray application on asphalt and concrete surfaces. Used in combination with DOMACRYL 943.
Used in combination with DOMACRYL 941.
Laying thickness 0,4 – 1,2 mm, spray application on asphalt surfaces, for higher temperatures. Used alone or in combination with DOMACRYL 949.
Laying thickness 0,4 – 0,8 mm, spray application on asphalt surfaces. Used in combination with pre-accelerated resin (DOMACRYL 945).
Laying thickness 0,3 – 0,8 mm, extremely fast drying for spray application, 100:2 system.



ISO 9001
ISO 14001
BUREAU VERITAS
Certification



European company
Global delivery

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