

2024  
EDITION



# METAL, TRANSPORT AND ACE

 **HELIOS** RESINS

The background is a solid yellow color with several translucent, overlapping bubbles of various sizes scattered across it. The bubbles have a slight gradient and some internal detail, giving them a three-dimensional appearance.

HELIOS

RESINS,

HIGH-QUALITY

RESINS FOR

RELIABLE

COATING

SOLUTIONS.

# METAL, TRANSPORT AND ACE

## THESE RESINS ENSURE EXCELLENT PROTECTION COATINGS FOR A BROAD RANGE OF INDUSTRIAL METAL COATING APPLICATIONS.

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### GOLDEN RESINS

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Today, Helios Resins produces around 70,000 tons of liquid resins annually, including coating and composite resins. Our coating resin brands – DOMACRYL, DOMOPOL, 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.

### SUSTAINABLE APPROACH

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By developing advanced, green, and long-lasting materials, we reduce emissions of hazardous organic solvents, incorporate bio-renewable raw materials and create a potential for energy savings. Our sustainable approach encompasses the production of bio-based materials, water-based resins, high solids, BPA non-intent resins, recycling, and participation in EU initiatives. We are the first in Slovenia to be ISCC Plus certified and offer several products made from sustainable raw materials that are certified in all parts of the value chain back to the point of origin. A sustainable future matters greatly to us, our business, and our customers. We are proud to see this reflected in the EcoVadis Silver Medal we received for our sustainability performance.

### DEVELOPED WITH ADVANCED TECHNOLOGIES

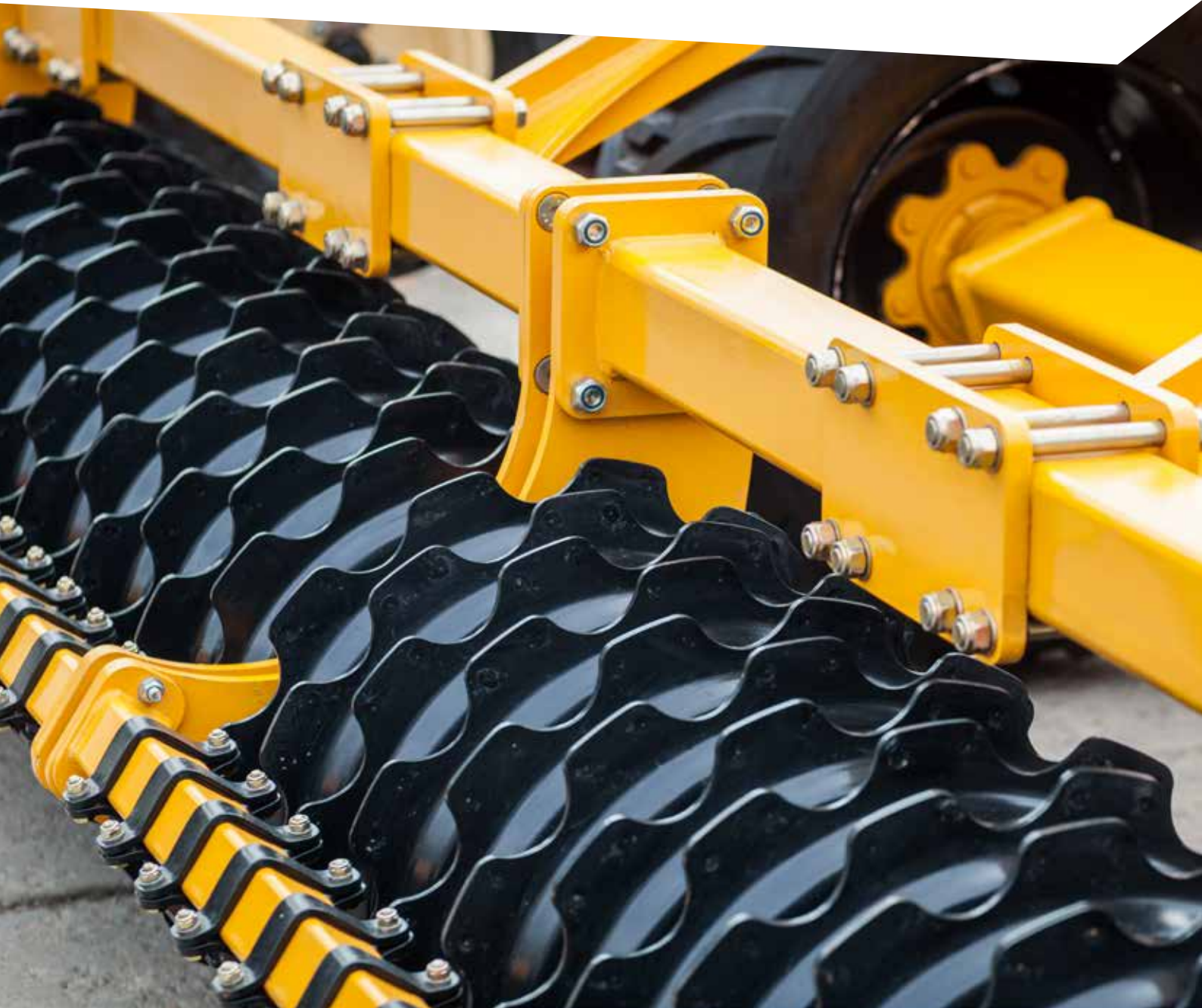
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Our laboratories and production facilities are fully equipped with the most advanced technologies, which enables the development and production of even the most complex solvent and waterborne resins. Our R&D has advanced skills as well as equipment for polyester and acrylic chemistry, including synthesis under pressure. By continually upgrading our production lines and expanding our production capacities, we are able to meet the most rigorous and complex needs and demands of our customers.

### QUALITY OF SERVICE

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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.



## ACRYLIC SOLVENTBORNE 1K RESINS

| RESIN        | DELIVERY FORM | ACID VALUE<br>on solid resin [mg KOH/g] | VISCOSITY 23 °C<br>[mPa.s] |
|--------------|---------------|---|----------------------------|
| DOMACRYL 285 | 55 SAB / BG   | 65 – 75                                 | 3500 – 7000                |
| DOMACRYL 835 | 50 BAc        | 5 – 10                                  | 3000 – 5000                |
| DOMACRYL 840 | 50 X / SA     | 5 – 10                                  | 4000 – 6000                |
| DOMACRYL 841 | 50 BAc        | max. 10                                 | 3000 – 4000                |
| DOMACRYL 846 | 50 X / SA     | 5 – 10                                  | 3000 – 4500                |
| DOMACRYL 854 | 65 BAc        | 15 – 25                                 | 5000 – 9000                |
| DOMACRYL 857 | 50 BAc        | 5 – 10                                  | 1000 – 2500                |
| DOMACRYL 857 | 55 X          | 5 – 10                                  | 2500 – 4500                |
| DOMACRYL 872 | 60 X          | 8 – 12                                  | 10000 – 15000              |



| Tg [°C] | DESCRIPTION   |
|---------|---|
| n/a     | Adhesion improvement, high gloss and colour retention. Suitable for crosslinking with epoxy resins.                               |
| 21      | Universal resin for protective coatings, used alone or in combination with vinyl resins. Good durability and abrasion resistance. |
| 69      | Pigmented and transparent paints with good heat stability, hiding power. Hard, tough and flexible. Also for aerosols.             |
| 69      | Pigmented and transparent paints with good heat stability, hiding power. Hard, tough and flexible. Also for aerosols.             |
| 79      | Pigmented and transparent paints. Gasoline and plasticizers resistant. Also for aerosols.   |
| 23      | Primers and top coats for nonferrous metals. Excellent toughness, rapid drying, high gloss and adhesion.                          |
| 63      | Pigmented and transparent paints. Also for spray-application paints with rapid drying.  |
| 63      | Pigmented and transparent paints. Also for spray-application paints with rapid drying.  |
| 56      | Pigmented and transparent paints for plastic. Rapid drying and excellent toughness.   |

## ACRYLIC SOLVENTBORNE 2K RESINS

| RESIN         | DELIVERY FORM      | ACID VALUE<br>on solid resin [mg KOH/g] | HYDROXYL VALUE<br>on solid resin [mg KOH/g] |
|---------------|--------------------|---|---|
| DOMACRYL 5196 | 60 SA              | max. 10                                 | 33 – 50                                     |
| DOMACRYL 505  | 60 X / BAc         | max. 5                                  | 45 – 55                                     |
| DOMACRYL 506  | 60 SA              | max. 10                                 | 50 – 65                                     |
| DOMACRYL 568  | 60 X / MPA         | max. 10                                 | 55 – 65                                     |
| DOMACRYL 568  | 60 X               | max. 10                                 | 55 – 65                                     |
| DOMACRYL 507  | 50 X / BAc         | max. 5                                  | 60 – 70                                     |
| DOMACRYL 5154 | 80 BAc             | max. 10                                 | 60 – 80                                     |
| DOMACRYL 536  | 60 X               | max. 10                                 | 75 – 100                                    |
| DOMACRYL 536  | 60 SA              | max. 10                                 | 75 – 100                                    |
| DOMACRYL 5367 | 70 BAc             | 15 – 22                                 | 75 – 100                                    |
| DOMACRYL 5427 | 70 X               | max. 10                                 | 80 – 100                                    |
| DOMACRYL 5428 | 70 BAc             | max. 15                                 | 80 – 100                                    |
| DOMACRYL 5705 | 60 X               | 5 – 10                                  | 85 – 105                                    |
| DOMACRYL 5130 | 70 BAc             | 6 – 10                                  | 90 – 110                                    |
| DOMACRYL 5267 | 60 BAc             | max. 10                                 | 90 – 110                                    |
| DOMACRYL 5267 | 60 X / MPA         | max. 10                                 | 90 – 110                                    |
| DOMACRYL 521  | 60 X               | max. 10                                 | 100 – 120                                   |
| DOMACRYL 5262 | 75 BAc / EEP / MPA | max. 13                                 | 100 – 120                                   |
| DOMACRYL 5210 | 75 BAc             | 7 – 11                                  | 110 – 130                                   |
| DOMACRYL 5437 | 75 SA              | 8 – 12                                  | 110 – 130                                   |
| DOMACRYL 547  | 60 X / SA / BAc    | 10 – 16                                 | 110 – 130                                   |
| DOMACRYL 5475 | 65 X / BAc         | 5 – 12                                  | 120 – 140                                   |
| DOMACRYL 5187 | 70 BAc             | max. 15                                 | 130 – 145                                   |
| DOMACRYL 5503 | 75 BAc             | max. 12                                 | 130 – 145                                   |
| DOMACRYL 5481 | 75 BAc             | max. 12                                 | 130 – 150                                   |
| DOMACRYL 5485 | 75 BAc             | max. 12                                 | 135 – 155                                   |
| DOMACRYL 5500 | 75 BAc             | 8 – 12                                  | 140 – 160                                   |
| DOMACRYL 522  | 60 X / MPA         | 18 – 25                                 | 140 – 160                                   |
| DOMACRYL 522  | 60 X / SA / BAc    | max. 10                                 | 140 – 160                                   |
| DOMACRYL 526  | 70 BAc             | max. 8                                  | 140 – 160                                   |
| DOMACRYL 544  | 60 X / SA / BAc    | max. 12                                 | 140 – 160                                   |
| DOMACRYL 543  | 60 X / MPA         | 8 – 14                                  | 145 – 165                                   |

| VISCOSITY 23 °C<br>[mPa.s] | DESCRIPTION  |
|----------------------------|--|
| 4000 – 5000                | Air and forced drying top coats with good lightfastness and chalking resistance. Adhesion on steel and most non-ferrous materials.   |
| 1400 – 2400                | Standard elastic resin for industrial primers and top coats.   |
| 2000 – 2400                | Standard resin for air-drying and stoving.   |
| 3000 – 5000                | Universal resin for industrial paints.   |
| 3000 – 5000                | Universal resin for industrial paints.   |
| 600 – 1200                 | Fast drying primers and top coats.   |
| 7000 – 11000               | Cost-efficient high-solid two-pack protective systems (top and clear coats) with good mechanical properties and outdoor durability.  |
| 1300 – 2300                | Standard resin for industrial paints.  |
| 2300 – 3300                | Standard resin for industrial paints.  |
| 2700 – 4700                | Anticorrosion primers, top and clear coats.  |
| 1500 – 3000                | High solid primers and finishes for industrial paints with very good mechanical properties and outdoor durability.   |
| 1500 – 2500                | Protective coatings for forced drying paints.  |
| 3000 – 4000                | Top coats for agricultural machinery and high grade industrial paints.   |
| 4000 – 6000                | Primers and top coats for transportation coatings, machinery and other high quality protective and maintenance coatings.   |
| 4000 – 6000                | Universal resin for industrial paints.   |
| 4000 – 6000                | Universal resin for industrial paints.   |
| 1400 – 1800                | Protective coatings.   |
| 13000 – 17000              | Room temperature drying or forced drying systems with fast build-up of hardness.   |
| 5000 – 8500                | Standard high solid resin for clear and top coats.   |
| 4200 – 7000                | High solid stoving finishes in combination with melamine resins. Improvement of appearance of the top coats in a combination with stoving alkyd or thermosetting acrylic resins is possible. |
| 2500 – 3500                | Standard resin for high-grade industrial paints with rapid initial drying.   |
| 3500 – 4500                | Very fast drying.  |
| 2800 – 4200                | Universal resin for industrial paints.   |
| 5000 – 7000                | Fast drying. Excellent mechanical properties and superior outdoor durability. 25% bio-based on solid content.  |
| 4500 – 6000                | Air and forced drying top coats with excellent outdoor stability, chemical resistance and mechanical properties.   |
| 8000 – 12000               | Fast drying. DTM. 10% bio-based on solid content.  |
| 3500 – 10000               | Very good balance between hardness and flexibility. Excellent mechanical properties and superior chemical resistance.  |
| 4000 – 5000                | Standard resin for industrial paints.  |
| 4000 – 6000                | Fast drying standard resin.  |
| 7000 – 11000               | Coatings for large machinery, alone or in combination with saturated alkyd resins.   |
| 3500 – 8000                | Fast drying. Also for primers including plastics.  |
| 2000 – 2500                | Standard high-performance resin.   |

## ACRYLIC SOLVENTBORNE 2K SPECIALTIES

| RESIN         | DELIVERY FORM | ACID VALUE<br>on solid resin [mg KOH/g] | HYDROXYL VALUE<br>on solid resin [mg KOH/g] |
|---------------|---------------|---|---|
| DOMACRYL 5652 | 55 BAc        | max. 5                                  | 200 – 220                                   |
| DOMACRYL 5109 | 85 BAc / Ac   | max. 10                                 | 135 – 155                                   |
| DOMACRYL 5245 | 75 BAc        | max. 3                                  | 125 – 145                                   |
| DOMACRYL 5270 | 75 BAc        | max. 3                                  | 125 – 145                                   |
| DOMACRYL 580  | 67 BAc        | 4 – 8                                   | 110 – 130                                   |
| DOMACRYL 5369 | 75 BAc        | max. 3                                  | 80 – 100                                    |
| DOMACRYL 5451 | 50 BAc        | max. 3                                  | 55 – 70                                     |
| DOMACRYL 540  | 50 BAc        | 5 – 10                                  | 40 – 50                                     |
| DOMACRYL 5220 | 45 Bac / X    | 6 – 12                                  | 30 – 40                                     |

## ACRYLIC WATERBORNE RESINS

| RESIN            | DELIVERY FORM   | VISCOSITY 23 °C<br>[mPa.s] | pH         | HYDROXYL VALUE<br>on solid resin [mg KOH/g] |
|------------------|-----------------|----------------------------|------------|---|
| DOMEMUL SA 9262  | 42 Wa           | 50 – 250                   | 8.0 – 8.5  |   |
| DOMEMUL SA 9263  | 40 Wa           | 20 – 350                   | 8.0 – 8.5  |   |
| DOMEMUL SA 9270  | 47 Wa           | 100 – 1000                 | 7.0 – 9.0  |   |
| DOMEMUL AA 7601  | 44 Wa           | max. 1000                  | 8.0 – 10.0 |   |
| DOMEMUL RA 9675  | 35 Wa           | 50 – 1000                  | 6.0 – 7.0  |   |
| DOMEMUL OHA 9200 | 45 Wa           | 20 – 600                   | 7.5 – 9.0  | 70 – 100                                    |
| DOMACRYL 0769    | 45 Wa / BG / SA | 200 – 1000                 | 7.0 – 8.5  | 100 – 120                                   |
| DOMACRYL 0707    | 43 Wa / DPM     | 100 – 3000                 | 8.0 – 9.0  | 100 – 120                                   |
| DOMACRYL 0768    | 42 Wa / PnB     | 200 – 5000                 | 8.0 – 9.0  | 130 – 150                                   |

## ALKYD SOLVENTBORNE 1K RESINS

| RESIN         | DELIVERY FORM  | OIL LENGTH / OIL TYPE | ACID VALUE<br>on solid resin [mg KOH/g] |
|---------------|----------------|-----------------------|---|
| DOMALKYD 1261 | 60 X           | 26% Soyabean FA       | max. 12                                 |
| DOMALKYD 1272 | 60 X           | 27% Soyabean FA       | max. 10                                 |
| DOMALKYD 1351 | 75 BAc         | 39% Soyabean FA       | max. 8                                  |
| DOMALKYD 1361 | 60 X           | 34% Soyabean FA       | max. 10                                 |
| DOMALKYD 1401 | 60 X           | 40% Tall oil FA       | max. 12                                 |
| DOMALKYD 1468 | 50 Solvent mix | 46% Non-yellowing FA  | max. 12                                 |
| DOMALKYD 1482 | 55 W / X       | 48% Soyabean FA       | max. 12                                 |
| DOMALKYD 1482 | 55 D-40 / MP   | 48% Soyabean FA       | max. 12                                 |
| DOMALKYD 1526 | 55 W           | 52% Soyabean oil      | max. 15                                 |
| DOMALKYD 3335 | 60 X / SA / nB | 33% DCO               | max. 25                                 |
| DOMALKYD 4391 | 60 X           | 39% Soyabean FA       | max. 15                                 |
| DOMALKYD 5435 | 60 SA / X      | 43% Synthetic FA      | max. 15                                 |



| VISCOSITY 23 °C<br>[mPa.s] | DESCRIPTION  |          |
|----------------------------|--|----------|
| 25000 – 45000              | Epoxy and hydroxy dual functional resin for 2K stoving applications. Epoxy equivalent weight 650 g/mol. Curing with amines, amides, polycarboxylates and polyisocyanates. BPA free coatings. |          |
| 8000 – 12000               | Clear and pigmented top coats. Good balance between hardness and flexibility, with excellent mechanical properties and superior outdoor durability. Suitable for DTM.                        |          |
| 2000 – 5000                | Extremely fast drying and long pot-life. Superior mechanical properties and outdoor durability.<br><i>17% bio-based on solid content.</i>  | PATENTED |
| 4000 – 6000                | Very long pot-life and super-fast hardness development. Very good balance between hardness and flexibility, with excellent mechanical properties and superior outdoor durability.            | PATENTED |
| 3000 – 6000                | Clear and top coats with very long pot-life and super-fast hardness development at room temperatures and forced drying.  | PATENTED |
| 6000 – 9000                | Fast drying and very long pot-life, for high solid clear and top coats. Good cost-performance ratio.   | PATENTED |
| 4000 – 6000                | Fast drying and very long pot-life, based on DOMACRYL 545, for clear and top coats.  | PATENTED |
| 3000 – 5000                | Self-matting hydroxy acrylic resin with good balance between hardness and flexibility.   |          |
| 2000 – 6000                | Very good adhesion on plastic substrates (PP, PE, PVC) with good balance between hardness and flexibility.   |          |

| ACID VALUE<br>on solid resin [mg KOH/g] | MFFT [°C] | DESCRIPTION   |
|---|-----------|---|
|   | 30        | Styrene-acrylic emulsion. Finishes and anticorrosion primers. APEO-free.  |
|   | 45        | Styrene-acrylic emulsion. Finishes and anticorrosion primers. APEO-free.  |
|   | 18        | Hydrophobic styrene-acrylic dispersion for anti-corrosive applications, stain locking primers and primers for enhanced exterior durability. Especially suitable for DTM. APEO-free. |
|   | 30        | Fast drying acrylic emulsion. APEO-free.  |
| 20 – 30                                 | 0         | Acrylic latex resin for effect pigmented based coats (metallic, pearlescent). APEO-free.  |
|   |           | OH-functional styrene-acrylic primary emulsion. Good gloss and adhesion to metal, suitable for DTM. Cost-efficient.   |
| 20 – 30                                 |           | Standard acrylic secondary dispersion for 2K PUR aqueous clear and top coats. DTM.  |
| 35 – 45                                 |           | Modified acrylic secondary dispersion. Very flexible. Good wet-on-wet application.  |
| 20 – 30                                 |           | Acrylic secondary dispersion. Standard resin for 2K PUR systems. High gloss, without aromatic co-solvent.   |

| VISCOSITY 23 °C<br>[mPa.s] | DESCRIPTION  |
|----------------------------|--|
| 2000 – 4000                | Standard resin for fast air and forced drying primers and top coats.   |
| 2000 – 3000                | Standard resin for fast air and forced drying primers and top coats.   |
| 1000 – 5000                | Binder for low-yellowing solvent borne coatings. High solid resin in BAc for baking or NC coatings.  |
| 4400 – 5600                | Fast air drying primers, putties and industrial finishes.  |
| 3000 – 4000                | Fast drying anticorrosion paints and industrial finishes.  |
| 660 – 1000                 | Very fast surface and through drying with high gloss and resistance to yellowing.  |
| 5000 – 7000                | Standard resin for paints, very good overall properties. Air and forced drying.  |
| 8000 – 12000               | Standard resin with very good overall properties. Due to special fatty acids content very good drying properties, low yellowing by air drying. |
| 2000 – 3000                | Pigment pastes for combination with medium oil air-drying alkyd resins. Finishes with excellent weather resistance.                            |
| 750 – 1250                 | Reactive resin for combination with melamine and alkyd resins. High reactivity.  |
| 4000 – 6000                | Universal stove drying coatings in combination with melamine resin.  |
| 2500 – 3500                | Industrial finishes in combination with DCO alkyd and melamine resins. Universal pigment pastes for NC and stoving finishes.                   |



## MODIFIED ALKYD SOLVENTBORNE 1K RESINS

| RESIN         | DELIVERY FORM | OIL LENGTH / OIL TYPE | MODIFICATION       | ACID VALUE<br>on solid resin [mg KOH/g] |
|---------------|---------------|-----------------------|--------------------|---|
| DOMALKYD 6351 | 60 X          | 35% Soyabean FA       | Epoxy ester        | max. 4                                  |
| DOMALKYD 6400 | 60 X          | 40% Soyabean FA       | Epoxy ester        | max. 4                                  |
| DOMALKYD 7351 | 60 X          | 35% Soyabean FA       | Aromatic urethane  | 6 – 15                                  |
| DOMALKYD 7575 | 55 D-40       | 57% Soyabean FA       | Aliphatic urethane | max.5                                   |
| DOMALKYD 8372 | 60 X          | 37% Linseed, tung oil | Phenolic           | 13 – 25                                 |
| DOMALKYD 8372 | 70 BAc        | 37% Linseed, tung oil | Phenolic           | 13 – 25                                 |
| DOMALKYD 9314 | 60 X          | 31% Soyabean FA       | Styrene            | max. 10                                 |
| DOMALKYD 9375 | 50 X          | 37% Soyabean FA       | Acrylic / Styrene  | max. 15                                 |



| VISCOSITY 23 °C<br>[mPa.s] | DESCRIPTION  |
|----------------------------|--|
| 8000 – 12000               | Anticorrosion primers and finishes.  |
| 7000 – 10000               | Anticorrosion primers, air or stove drying with melamine resins. Fast drying, excellent adhesion and hardness. |
| 4000 – 7000                | Fast drying enamels.   |
| 3000 – 4500                | Non-yellowing enamels. Good outdoor durability.  |
| 2500 – 3500                | Universal binder for anticorrosion primers. Excellent drying properties and adhesion.                          |
| 5000 – 7000                | Universal binder for anticorrosion primers. Excellent drying properties and adhesion.                          |
| 1700 – 2700                | Fast drying industrial primers and finishes for metal and radiator enamels, good recoatability.                |
| 2000 – 3000                | Industrial primers and finishes. Very good moisture resistance.  |

## ALKYD SOLVENTBORNE 2K RESINS

| RESIN         | DELIVERY FORM      | ACID VALUE<br>on solid resin [mg KOH/g] | HYDROXYL VALUE<br>on solid resin [mg KOH/g] |
|---------------|--------------------|---|---|
| DOMALKYD 4284 | 70 X               | max. 12                                 | 70 – 100                                    |
| DOMALKYD 5261 | 70 BA <sub>c</sub> | max. 20                                 | 150 – 175                                   |
| DOMALKYD 5331 | 75 BA <sub>c</sub> | 6 – 10                                  | 140 – 160                                   |

## ALKYD AND POLYESTER WATER REDUCIBLE RESINS

| RESIN         | DELIVERY FORM    | OIL LENGTH / OIL TYPE | ACID VALUE<br>on solid resin [mg KOH/g] |
|---------------|------------------|-----------------------|---|
| DOMALKYD 0246 | 70 BG            | Epoxy modified        | 35 – 65                                 |
| DOMALKYD 0261 | 70 PnB / 2B      | 29% Soyabean FA       | 35 – 45                                 |
| DOMALKYD 0265 | 70 BG / 2B / PnB | 30% Soyabean FA       | 30 – 35                                 |
| DOMOPOL 5301  | 60 BG            |                       | 24 – 28                                 |
| DOMALKYD 0391 | 80 Wa / BG       | 38% Soyabean FA       | 40 – 50                                 |
| DOMALKYD 0503 | 80 Wa            | 33% Mixed FA          | 40 – 50                                 |






## ALKYD, POLYESTER EMULSIONS AND POLYURETHANE DISPERSIONS





| RESIN         | DELIVERY FORM | ACID VALUE<br>on solid resin [mg KOH/g] | VISCOSITY 23 °C<br>[mPa.s] |
|---------------|---------------|---|----------------------------|
| DOMALKYD 0460 | 38 Wa / MP    |   | 9000 – 15000               |
| DOMALKYD 0545 | 40 Wa         | max. 28                                 | 50 – 1000                  |
| DOMALKYD 0547 | 42 Wa         | 15 – 20                                 | max. 10000                 |
| DOMOPOL 8037  | 35 WA / DMP   | 65 – 75                                 | 500 – 4000                 |
| DOMOPUR 0133  | 36 Wa         | 30 – 50                                 | 2000 – 8000                |

## POLYESTER SOLVENTBORNE RESINS

| RESIN        | DELIVERY FORM      | ACID VALUE<br>on solid resin [mg KOH/g] | HYDROXYL VALUE<br>on solid resin [mg KOH/g] |
|--------------|--------------------|---|---|
| DOMOPOL 6046 | 100%               | 7 – 12                                  | 250 – 290                                   |
| DOMOPOL 7046 | 100%               | 7 – 12                                  | 250 – 290                                   |
| DOMOPOL 6052 | 80 BA <sub>c</sub> | max. 3                                  | 150 – 200                                   |
| DOMOPOL 6067 | 80 BA <sub>c</sub> | max. 2                                  | 130 – 160                                   |
| DOMOPOL 6068 | 60 X               | 17 – 25                                 | 80 – 120                                    |
| DOMOPOL 6115 | 100%               | max. 3                                  | 140 – 160                                   |
| DOMOPOL 6181 | 75 X               | max. 15                                 | 145 – 180                                   |

| VISCOSITY 23 °C [mPa.s] | DESCRIPTION                                     |
|-------------------------|---|
| 4000 – 6000             | Air and forced drying lacquers.                 |
| 4000 – 6000             | Air and forced drying lacquers, pigment pastes. |
| 6000 – 10000            | High grade industrial paints.                   |

| VISCOSITY 23 °C [mPa.s] | BIO-BASED CONTENT on solid resin [%]   | DESCRIPTION   |
|-------------------------|--|---|
| 8000 – 22000            | 42  | Good pigment wetting, enhanced adhesion, rapid curing, good anticorrosion properties.   |
| 5000 – 15000            | 61  | Air drying and stoving primers and top coats.   |
| 15000 – 20000           | 62  | Air and forced drying primers and top coats. High corrosion resistance.                 |
| 1300 – 2700             |  | Milling resin. Water-thinnable after neutralization. Good pigment wetting and adhesion. |
| 30000 – 60000           | 66  | Non-yellowing enamels. Good outdoor durability.   |
| 5000 – 35000            | 60  | Excellent pigment wetting and application properties. Without organic solvent.          |

| pH        | BIO-BASED CONTENT on solid resin [%]   | DESCRIPTION   |
|-----------|--|---|
| 8.0 – 9.0 | 79  | Acrylic modified alkyd emulsion. Fast air drying, high gloss, excellent flow and very low-yellowing. Low VOC content.   |
| 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. |
| 7.5 – 8.5 | 60  | PU modified alkyd emulsion without organic solvents. Very rapid physical drying, high gloss and hardness.   |
| 7.0 – 9.0 | 14  | Acrylic modified saturated polyester emulsion for one-coat finishes or topcoats with good weathering resistance.  |
| 7.0 – 8.5 | 47   | Aqueous polyurethane dispersion modified with unsaturated fatty acids for paints in spray cans.   |

| VISCOSITY 23 °C [mPa.s] | DESCRIPTION   |
|-------------------------|---|
| 750 – 1000              | Used with hydroxyl acrylic resins to increase solids content of coatings.   |
| 750 – 1000              | Used with hydroxyl acrylic resins to increase solids content of coatings. <b>100% bio-based on solid content.</b>   |
| 1000 – 2000             | For 2K polyurethane coatings as a combination resin for hydroxyl acrylic resins to increase solids content, improve flexibility and outdoor durability in industrial finishes, protective coatings and coatings for plastics. |
| 1800 – 2600             | 2K PUR coatings.  |
| 2250 – 3250             | Air drying 2K industrial coatings in combination with isocyanates.  |
| 2500 – 4500             | Solvent-free polyester and polyether polyol, suitable for use in the formulation of 2K coatings. The coatings are tough and flexible, hard-wearing and chemical resistant.  |
| 6000 – 9000             | 2K PUR flexible and chemical resistant coatings, with good pigment wetting properties and high resistance to yellowing.   |



## ADHESION PROMOTORS

| RESIN          | DELIVERY FORM | ACID VALUE<br>on solid resin [mg KOH/g] | HYDROXYL VALUE<br>on solid resin [mg KOH/g] |
|----------------|---------------|---|---|
| ADDITIVE EP024 | 73 Wa / BG    | 40 – 50                                 |   |
| ADDITIVE EP135 | 65 BG         | 110 – 140                               |   |
| DOMOPOL 5100   | 60 X          | 20 – 30                                 | ~30   |
| DOMOPOL 5144   | 60 X / BGAc   | 15 – 30                                 | ~30   |
| DOMOPOL 5200   | 75 BAc        | 20 – 30                                 | ~95   |

2B = 2-Butanol, APEO = Alkylphenol ethoxylate, BAc = Butyl acetate, BG = Butylglycol, BGAc = Butylglycol acetate, D-40 = Dearomatized white spirit, DCO = Dehydrated  
 FA = Fatty acid, ISCC = International Sustainability and Carbon Certification, MP = Methoxypropanol, MPA = Methoxy propyl acetate, nB = n-Butanol, NC = Nitrocellulose,



| VISCOSITY 23 °C<br>[mPa.s] | DESCRIPTION  |
|----------------------------|--|
| 5000 – 8000                | Epoxy phosphate additive for waterborne stoving enamels. Improves adhesion and corrosion, chemical and stain resistance. |
| 1500 – 3000                | Epoxy phosphate additive for stoving enamels.  |
| 300 – 650                  | Adhesion improvement on aluminium, steel and galvanized steel.   |
| 1000 – 4500                | Adhesion improvement on aluminium and steel; excellent hardness/flexibility ratio.                                       |
| 1000 – 2500                | Adhesion improvement on aluminium, steel and galvanized steel; suitable for high solids coatings.                        |

castor oil, **DMM** = Dipropylene glycol dimethyl ether, **DPM** = Dipropylene glycol monomethyl ether, **DTM** = Direct-to-metal, **EEP** = Ethyl 3-ethoxypropionate, **PnB** = Propylene glycol monobutyl ether, **SA** = Aromatic solvent 100, **W** = White spirit, **Wa** = Water, **X** = Xylene.



ISO 9001  
ISO 14001  
BUREAU VERITAS  
Certification



## HELIOS RESINS



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