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

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

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
<table>
<thead>
<tr>
<th>RESIN</th>
<th>DELIVERY FORM</th>
<th>OIL LENGTH / OIL TYPE</th>
<th>VISCOSITY 23 °C [mPa.s]</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOMALKYD 1492</td>
<td>50 D–40</td>
<td>49% Soyabean F. A.</td>
<td>5500 – 7000</td>
</tr>
<tr>
<td>DOMALKYD 1665</td>
<td>70 D–40</td>
<td>66% Soyabean F. A.</td>
<td>5000 – 7000</td>
</tr>
<tr>
<td>DOMALKYD 1666</td>
<td>75 D–40 / MP</td>
<td>66% Soyabean F. A.</td>
<td>2000 – 3000</td>
</tr>
<tr>
<td>DOMALKYD 1666</td>
<td>75 D–60</td>
<td>66% Soyabean F. A.</td>
<td>2000 – 3000</td>
</tr>
<tr>
<td>DOMALKYD 1673</td>
<td>60 D–60</td>
<td>67% Soyabean oil</td>
<td>3000 – 4500</td>
</tr>
<tr>
<td>DOMALKYD 1673</td>
<td>60 D–60</td>
<td>67% Soyabean oil</td>
<td>3000 – 4500</td>
</tr>
<tr>
<td>DOMALKYD 1685</td>
<td>75 D–40</td>
<td>68% Soyabean oil</td>
<td>5000 – 7000</td>
</tr>
<tr>
<td>DOMALKYD 1722</td>
<td>70 D–60</td>
<td>72% Soyabean oil</td>
<td>500 – 900</td>
</tr>
<tr>
<td>DOMALKYD 1755</td>
<td>70 D–60</td>
<td>75% Soyabean oil</td>
<td>750 – 1000</td>
</tr>
<tr>
<td>DOMALKYD 1755 LV</td>
<td>100%</td>
<td>75% Soyabean oil</td>
<td>6000 – 8000</td>
</tr>
<tr>
<td>DOMALKYD 2645</td>
<td>100%</td>
<td>64% Linseed oil</td>
<td>7000 – 11000</td>
</tr>
<tr>
<td>DOMALKYD 2755 LV</td>
<td>100%</td>
<td>80% Linseed oil</td>
<td>2000 - 3000</td>
</tr>
<tr>
<td>DOMALKYD 7575</td>
<td>55 D–40</td>
<td>57% Soyabean F. A.</td>
<td>3000 – 4500</td>
</tr>
<tr>
<td>DOMALKYD 7625</td>
<td>60 D–40</td>
<td>62% Soyabean oil</td>
<td>2200 – 2800</td>
</tr>
<tr>
<td>DOMALKYD 7703</td>
<td>85 D–40</td>
<td>70% mixed F. A.</td>
<td>4000 – 6000</td>
</tr>
<tr>
<td>ACID VALUE on solid resin [mg KOH/g]</td>
<td>APPLICATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>-------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>max. 10</td>
<td>Quick drying medium oil alkyd resin for paints for metal work (industrial, machine and radiator paints).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>max. 10</td>
<td>General purpose binder in enamels for wood and metal, for indoor and outdoor applications.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>max. 10</td>
<td>Low VOC standard resin for high gloss paints and lacquers for wood and metal.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>max. 10</td>
<td>Low VOC standard resin for high gloss paints and lacquers for wood and metal.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>max. 10</td>
<td>Standard resin for decorative paints and lacquers for metal and wood.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>max. 10</td>
<td>Standard resin for decorative paints and lacquers for metal and wood.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>max. 10</td>
<td>General purpose binder for paints for metal and wood.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>max. 10</td>
<td>Standard resin for wood lacquers, stains and paints. Very good weather resistance (with isophthalic acid modified).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>max. 10</td>
<td>Standard resin for wood lacquers, stains and paints. Very good weather resistance (with isophthalic acid modified).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>max. 10</td>
<td>Low VOC lacquers, stains and paints for wood. Very good weather resistance (with isophthalic acid modified).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>max. 7</td>
<td>Universal binder for pigment pastes used for paints and stains.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>max. 15</td>
<td>Low viscosity drying alkyd for production of high solid paint system, low VOC.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>max. 5</td>
<td>Aliphatic urethane (IPDI) alkyd resin for non-yellowing decorative enamels for wood and metal. Good outdoor durability.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>max. 5</td>
<td>Aliphatic urethane (TDE) alkyd resin for universal finishes for wood in combination with long oil alkyd resins. Anticorrosion primers for metal. Quick drying, good outdoor durability.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>max. 5</td>
<td>Aliphatic urethane (IPDI) alkyd resin used for the preparation of universal pigmented paints and clear finishes for wood.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Alkyd Water Emulsions

<table>
<thead>
<tr>
<th>Resin</th>
<th>Delivery Form</th>
<th>Modification / Oil Length</th>
<th>Viscosity 23 °C [mPa.s]</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOMALKYD 0460</td>
<td>38 Wa / BG</td>
<td>Acrylic modified, 56%</td>
<td>9000 – 15000</td>
</tr>
<tr>
<td>DOMALKYD 0460</td>
<td>38 Wa / MP</td>
<td>Acrylic modified, 56%</td>
<td>9000 – 15000</td>
</tr>
<tr>
<td>DOMALKYD 0461</td>
<td>38 Wa / BG</td>
<td>Acrylic modified, 56%</td>
<td>2000 – 10000</td>
</tr>
<tr>
<td>DOMALKYD 0502</td>
<td>35 Wa</td>
<td></td>
<td>200 – 3000</td>
</tr>
<tr>
<td>DOMALKYD 0545</td>
<td>40 Wa</td>
<td>PU modified, 44%</td>
<td>50 – 500</td>
</tr>
</tbody>
</table>

### Acrylic Thermo Plastic Solventborne Resins

<table>
<thead>
<tr>
<th>Resin</th>
<th>Delivery Form</th>
<th>Acid Value on Solid Resin [mg KOH/g]</th>
<th>Viscosity 23 °C [mPa.s]</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOMACRYL 820</td>
<td>58 X</td>
<td>max. 10</td>
<td>20000 – 24000</td>
</tr>
<tr>
<td>DOMACRYL 830</td>
<td>50 D–60 / SAB</td>
<td>max. 10</td>
<td>2400 – 3500</td>
</tr>
<tr>
<td>DOMACRYL 830</td>
<td>50 W</td>
<td>max. 10</td>
<td>2400 – 3500</td>
</tr>
<tr>
<td>DOMACRYL 833</td>
<td>50 D–30</td>
<td>max. 20</td>
<td>3000 – 5000</td>
</tr>
<tr>
<td>DOMACRYL 8383</td>
<td>65 D–40</td>
<td>max. 3</td>
<td>2000 – 3000</td>
</tr>
<tr>
<td>DOMACRYL 840</td>
<td>50 X / SA</td>
<td>5 – 10</td>
<td>4000 – 6000</td>
</tr>
<tr>
<td>DOMACRYL 846</td>
<td>50 X / SA</td>
<td>5 – 10</td>
<td>3000 – 4500</td>
</tr>
<tr>
<td>DOMACRYL 847</td>
<td>50 BAc</td>
<td>5 – 10</td>
<td>3500 – 5000</td>
</tr>
</tbody>
</table>

### Acrylic Water Emulsions

<table>
<thead>
<tr>
<th>Resin</th>
<th>Delivery Form</th>
<th>Viscosity 23 °C [mPa.s]</th>
<th>pH</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOMEMUL AA 7601</td>
<td>44 Wa</td>
<td>max. 1000</td>
<td>8 – 10</td>
</tr>
<tr>
<td>DOMEMUL AA 7960</td>
<td>45 Wa</td>
<td>20 – 250</td>
<td>8 – 8</td>
</tr>
<tr>
<td>DOMEMUL AA 9670</td>
<td>40 Wa</td>
<td>100 – 800</td>
<td>7.5 – 9.5</td>
</tr>
<tr>
<td>DOMEMUL SA 9262</td>
<td>42 Wa</td>
<td>50 – 250</td>
<td>8 – 8.5</td>
</tr>
<tr>
<td>DOMEMUL SA 9262 (APEO-free)</td>
<td>42 Wa</td>
<td>50 – 250</td>
<td>8 – 8.5</td>
</tr>
<tr>
<td>DOMEMUL SA 9263 (APEO-free)</td>
<td>40 Wa</td>
<td>20 – 350</td>
<td>8 – 8.5</td>
</tr>
<tr>
<td>DOMEMUL OHA 9200</td>
<td>45 Wa</td>
<td>20 – 600</td>
<td>7.5 – 9</td>
</tr>
</tbody>
</table>

### Specialities

<table>
<thead>
<tr>
<th>Resin</th>
<th>Delivery Form</th>
<th>Viscosity 23 °C [mPa.s]</th>
<th>Hydroxyl Value on Solid Resin [mg KOH/g]</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOMALKYD 4161</td>
<td>70 BAc</td>
<td>1000 – 1500</td>
<td>260 – 300</td>
</tr>
<tr>
<td>DOMOPOL 105 UV</td>
<td>100%</td>
<td>10000 – 14000</td>
<td></td>
</tr>
<tr>
<td>DOMOPOL 6115</td>
<td>100%</td>
<td>2500 – 4500</td>
<td>140 – 160</td>
</tr>
<tr>
<td>pH</td>
<td>APPLICATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 – 9</td>
<td>Decorative top coats and primers on wood or steel substrates; also can be used for the industrial anticorrosive paints.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 – 9</td>
<td>Decorative top coats and primers on wood or steel substrates; also can be used for the industrial anticorrosive paints.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.5 – 9</td>
<td>Decorative top coats and primers on wood or steel substrates; also can be used for the industrial anticorrosive paints.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.5 – 8.8</td>
<td>VOC-free, water dilutable, fatty acid modified alkyd resin in pure water emulsion. It is used for high bodied stoving systems in one-coat and decorative finishes.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 – 8</td>
<td>Air-drying primers, top-coats, wood stains and stoving finishes.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tg VALUE (theoretical) [°C]</th>
<th>APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>56</td>
<td>High-grade masonry paints.</td>
</tr>
<tr>
<td>–7</td>
<td>Masonry paints, concrete paints. High flexibility.</td>
</tr>
<tr>
<td>–7</td>
<td>Masonry paints, concrete paints. High flexibility.</td>
</tr>
<tr>
<td>56</td>
<td>Paint systems for exterior protective coatings. Excellent solubility in aliphatic solvents.</td>
</tr>
<tr>
<td>–</td>
<td>As a combination resin for optimization of different characteristics with long oil alkyd resins, air drying resin.</td>
</tr>
<tr>
<td>62</td>
<td>Pigmented and transparent paints for metal and plastics.</td>
</tr>
<tr>
<td>72</td>
<td>Pigmented and transparent paints for metal and plastics. Gasoline and plasticisers resistant.</td>
</tr>
<tr>
<td>66</td>
<td>Pigmented and transparent paints for metal and plastics.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MFFT [°C]</th>
<th>APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>Waterborne traffic marking paints, metal finishes. It provides fast drying also in high humidity and low temperatures.</td>
</tr>
<tr>
<td>0</td>
<td>Core-shell emulsion for wood coatings; good anti-blocking resistance, for joinery and furniture, decorative application.</td>
</tr>
<tr>
<td>0</td>
<td>Waterborne wood for interior and exterior, recommended for furniture, joinery, decorative application, with non yellowing, good wetting.</td>
</tr>
<tr>
<td>30</td>
<td>Styrene-acrylic emulsion, used for industrial waterborne paint for metal finishes, anticorrosive primers, plastic, wood.</td>
</tr>
<tr>
<td>30</td>
<td>Styrene-acrylic emulsion, used for industrial waterborne paint for metal finishes, anticorrosive primers, plastic, wood.</td>
</tr>
<tr>
<td>45</td>
<td>Waterborne paints for metal finishes, anticorrosive primers for plastic, wood.</td>
</tr>
</tbody>
</table>

2K styrene-acrylic OH-functional (Approx. 2.75 % Hydroxyl content on solid resin). Tg = 53 primary emulsion, used for the preparation of industrial waterborne paint for metal, plastic, wood.

<table>
<thead>
<tr>
<th>ACID VALUE on solid resin [mg KOH/g]</th>
<th>APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>max. 4</td>
<td>2K PUR lacquers for wood (parquet lacquers) and metal.</td>
</tr>
<tr>
<td>max. 5</td>
<td>100 % solid content acrylated polyester resin suitable for making UV and electron-beam curing paints, lacquers and printing inks. Extent adhesion on wood, paper and various plastics.</td>
</tr>
<tr>
<td>max. 3</td>
<td>Concrete and asphalt floors, steel surfaces in combination with isocyanates.</td>
</tr>
</tbody>
</table>