2026
EDITION

# THERMOSET RESINS FOR COMPOSITES

HELIOS RESINS | ATCOAT

# FLEXIBLE, HIGH-QUALITY AND RELIABLE COMPOSITE SOLUTIONS SINCE 1964.

## GOLDEN RESINS

We produce around 70,000 tons of liquid resins annually, including coating and composite resins. Our coating resin brands – DOMACRYL, DOMOPOL, DOMALKYD, DOMEMUL, DOMOPUR, ATRESIN, ATRELUX and ATRETHIX and composite resin brands – COLPOLY, COLVINYL and COLGEL – have achieved a strong market position and are trusted for their quality and performance. With the combined strength of two strong production companies, ATCOAT and Helios Resins, we serve more than 50 countries worldwide. Our production sites in Germany and Slovenia allow us to deliver our quality resins throughout Europe and beyond. A broad product portfolio, intensive R&D and innovation capabilities, high production flexibility, and superior customer service are the strengths of Helios Resins and ATCOAT as a joint specialist for synthetic resins.

## RESPONSIBLE MATERIAL DEVELOPMENT

By developing advanced and long-lasting materials and technolgies, we work to reduce the use of hazardous organic solvents, incorporate bio-renewable raw materials, and create a potential for energy savings. Our product and technology development activities encompass the production of bio-based materials, water-based resins, high solids technologies, BPA-NI resins (without addeed Bisphenol A), recycling solutions, and participation in EU initiatives. We are the first in Slovenia to be ISCC Plus certified and offer several products made from **ISCC PLUS-certified** raw materials certified throughout the value chain back to the point of origin. We are proud to see this reflected in the **EcoVadis Platinum Medal** we received in recognition of our corporate responsibility and sustainability management practices.

## DEVELOPED WITH ADVANCED TECHNOLOGIES

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 can meet the most rigorous and complex needs and demands of our customers.

## QUALITY OF SERVICE

We are committed to providing a flexible and reliable service while satisfying our customers' specific requests. Helios Resins and ATCOAT ensure 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. We produce tailormade resins for specific needs and offer support in developing customized applications.

**COLPOLY**
Unsaturated polyesters

**COLVINYL**
Vinyl esters

**COLGEL**
Gel coats

# I. GENERAL PURPOSE RESINS

## GENERAL PURPOSE LAMINATING RESINS FOR HAND LAY-UP AND SPRAY-UP APPLICATIONS

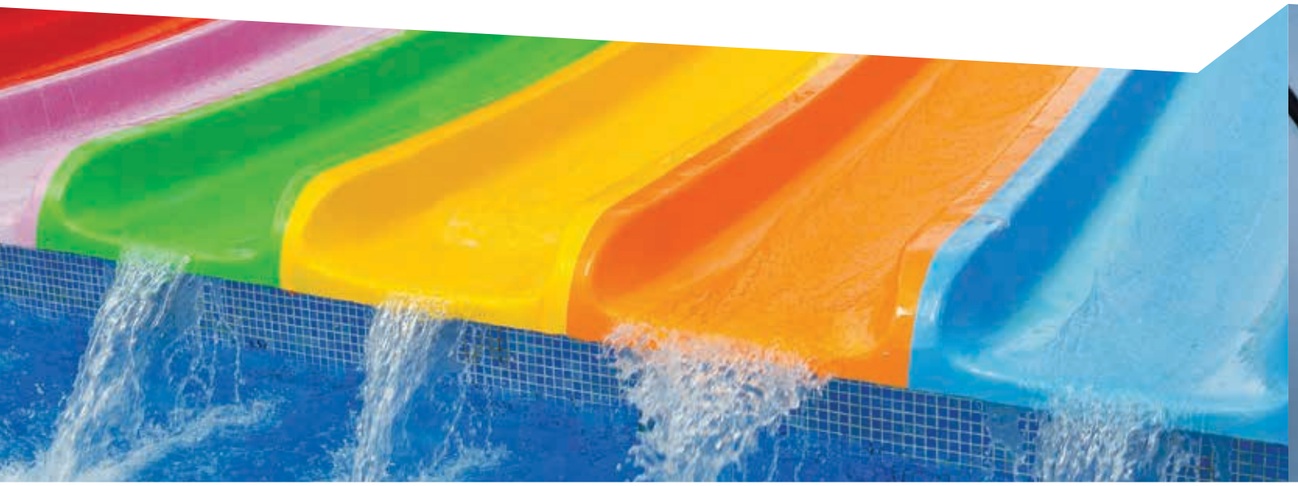
| PRODUCT | CHEMICAL NATURE | REACTIVE MONOMER CONTENT (%) | ELONGATION AT BREAK (%) | TENSILE STRENGTH (MPa) | HDT (°C) | REMARKS |
|---|---|---|---|---|---|---|
| COLPOLY 724 – series | OPA* | 42 | 1.5 | 60 | 65 | Preaccelerated, thixotropic, LSE, low peak temperature, promoted. |
| COLPOLY 733 – series | DCPD | 38 | 2.5 | 65 | 65 | Preaccelerated, thixotropic, LSE, low peak temperature, promoted, Lloyd's approval (without LSE). |
| COLPOLY H 738-95 | Hybrid VE/DCPD | 39 | 3.0 | 70 | 105 | Preaccelerated, thixotropic, barrier coat. |
| COLPOLY 752 – series | OPA* | 42 | 2.5 | 85 | 105 | Preaccelerated, thixotropic, LSE, low peak temperature, promoted. |
| COLPOLY 780 – series | IPA | 44 | 3.5 | 85 | 85 | Preaccelerated, thixotropic, medium thix index, chemical resistant, LSE version on request, Lloyd's approval. |
| COLVINYL VE 101 AT | VE | 46 | 4.5 | 80 | 105 | Preaccelerated, thixotropic, barrier coat. |

*UP resin also available in a version with a proportion of recycled PET.

## HIGH PERFORMANCE LAMINATING RESINS FOR HAND LAY-UP AND SPRAY-UP APPLICATIONS

| PRODUCT | CHEMICAL NATURE | REACTIVE MONOMER CONTENT (%) | ELONGATION AT BREAK (%) | TENSILE STRENGTH (MPa) | HDT (°C) | REMARKS |
|---|---|---|---|---|---|---|
| COLPOLY 722 – series | OPA | 43 | 2.5 | 70 | 75 | Preaccelerated, thixotropic, LSE, low peak temperature, Lloyd's approval. |
| COLPOLY 781 – series | IPA/NPG | 41 | 3.0 | 65 | 80 | Preaccelerated, thixotropic, LSE, low peak temperature, Lloyd's approval. |

*Technical information for a respective product can be obtained from our team of dedicated salespeople.



# II. CASTING AND CLOSED MOULDING RESINS

## CASTING RESINS

| PRODUCT | CHEMICAL NATURE | REACTIVE MONOMER CONTENT (%) | ELONGATION AT BREAK (%) | TENSILE STRENGTH (MPa) | HDT (°C) | REMARKS |
|---|---|---|---|---|---|---|
| COLPOLY 732 – series | DCPD | 27-35 | 3.0 | 70 | 80 | Artificial marble and onyx, various viscosities. |
| COLPOLY 733 – series | DCPD | 32-34 | 2.5 | 60 | 100 | Artificial marble and onyx, polymer concrete, various viscosities. |
| COLPOLY 734 – series | DCPD | 26 | 4.5–5.5 | 50 | | Marble casting applications, various viscosities. |
| COLPOLY 7167 | IPA/NPG | 33 | 2.0 | 90 | 105 | Solid surface, contains methacrylic monomer. |
| COLPOLY 7167-8A | IPA/NPG | 33 | 2.0 | 90 | 105 | Resin is recommended for quartz filled systems (Gebrüder Dorfner GmbH & Co.), contains methacrylic monomer, preaccelerated. |

## RESIN TRANSFER MOULDING (RTM)

| PRODUCT | CHEMICAL NATURE | REACTIVE MONOMER CONTENT (%) | ELONGATION AT BREAK (%) | TENSILE STRENGTH (MPa) | HDT (°C) | REMARKS |
|---|---|---|---|---|---|---|
| COLPOLY 7200 AI | DCPD | 37 | 3.0 | 75 | 80 | Rapid fill times, low viscosity, resistance to print-through, preaccelerated. |
| COLVINYL H 110 A-LP | VE | 35–38 | 4.5–5.0 | 85–90 | 110 | Low reactivity, excellent strength and toughness, low shrinkage, preaccelerated, good surface profile. |
| COLPOLY 749 VEX | OPA | 36–38 | 1.0 | 52 | 110 | Vacuum expansion process, good surface profile, lightweight parts for transportation. |
| COLPOLY 7524-03 | DCPD | 37 | 4.0 | 75 | 85 | Excellent impregnation. |
| COLPOLY 7524/8 | OPA | 37 | 3.5 | 80 | 90 | Excellent impregnation. |

## SHEET MOULDING COMPOUND (SMC), BULK MOULDING COMPOUND (BMC)

| PRODUCT | CHEMICAL NATURE | REACTIVE MONOMER CONTENT (%) | ELONGATION AT BREAK (%) | TENSILE STRENGTH (MPa) | HDT (°C) | REMARKS |
|---|---|---|---|---|---|---|
| COLPOLY 757 | OPA | 36 | 2.0 | 40 | 115 | High resistance to heat deformation, compatible with LP additives. |
| COLPOLY 768 | Maleic | 32 | 1.5 | 60 | 120 | Low shrink SMC/BMC application. |
| COLPOLY 783 | IPA | 33 | 3.0 | 70 | 105 | High crack resistance, high resistance to heat deformation, high viscosity and high reactivity. |
| COLPOLY 7572 | OPA | 35 | 1.5 | 70 | 120 | High resistance to heat deformation, compatible with LP additives. |
| COLPOLY 7795 | Maleic | 35 | 2.0 | 40 | 130 | Basic resin for LS formulation. |
| COLPOLY LPA 2600 | Saturated polyester | 30 | - | - | - | LPA additive. |

*Technical information for a respective product can be obtained from our team of dedicated salespeople.

## III. RESINS FOR SPECIAL APPLICATIONS

### SPRAY-UP LAMINATING RESINS FOR ACRYLICS AND/OR ABS

| PRODUCT | CHEMICAL NATURE | REACTIVE MONOMER CONTENT (%) | ELONGATION AT BREAK (%) | TENSILE STRENGTH (MPa) | HDT (°C) | REMARKS |
|---|---|---|---|---|---|---|
| COLPOLY 7310A-80 | DCPD | 40 | 2.0–3.0 | 65–70 | 70 | Preaccelerated, low viscosity, good adhesion to acrylics (especially PMMA). |
| COLPOLY 7331 LV | DCPD | 37 | 2.5 | 65 | 70 | Formulated to be filled with mineral fillers, preaccelerated, LSE (possible non LSE version on request), good adhesion on PMMA. |
| COLPOLY 736 WAT | DCPD | 38 | 2.5 | 60 | 85 | White pigmented, accelerated, thixotropic, LSE, formulated to be filled with mineral fillers, good adhesion on ABS and PMMA. |

### CONTINUOUS LAMINATING

| PRODUCT | CHEMICAL NATURE | REACTIVE MONOMER CONTENT (%) | ELONGATION AT BREAK (%) | TENSILE STRENGTH (MPa) | HDT (°C) | REMARKS |
|---|---|---|---|---|---|---|
| COLPOLY 720 S-L | OPA | 37 | 1.5–2.5 | 65–75 | 70 | Medium viscosity and reactivity, UV stabilized, continuous sheet curing with MIBK, discontinouos laminating with MEKP or APP. |
| COLPOLY 721 S | DCPD | 36 | 3.5 | 60 | 80 | Low viscosity, UV stabilised, good glass wetting, continuous sheet curing with MIBK, discontinuous laminating with MEKP or AAP. |
| COLPOLY 739 S | DCPD | 32 | 2.5 | 60 | 95 | Low viscosity, UV stabilised, good glass wetting, continuous sheet curing with MIBK, discontinuous laminating with MEKP or AAP. |

*Technical information for a respective product can be obtained from our team of dedicated salespeople.

## PULTRUSION

| PRODUCT | CHEMICAL NATURE | REACTIVE MONOMER CONTENT (%) | ELONGATION AT BREAK (%) | TENSILE STRENGTH (MPa) | HDT (°C) | REMARKS |
|---|---|---|---|---|---|---|
| COLPOLY RP 7015/8 | DCPD | 35 | 2.5 | 60 | 95 | Medium reactive resin, good mechanical properties, good glass wetting. |
| COLPOLY 7558-02 | OPA | 35 | 3.0 | 70 | 100 | Excellent mechanical properties, high impact strength, high HDT. |
| COLPOLY 779 | Maleic | 36 | 1.5 | 35 | 130 | High resistance to heat deformation, high reactivity. |
| COLPOLY 7800 | IPA | 35 | 4.5 | 90 | 100 | Fast through cure (possible different viscosity and solids content modified with LS additives etc.). |
| COLVINYL VE 105 LV | VE | 34 | 5.5 | 85 | 105 | Optimal wetting of the glass fiber, good mechanical properties and excellent corrosion resistant, high HDT. |

## VACUUM INFUSION

| PRODUCT | CHEMICAL NATURE | REACTIVE MONOMER CONTENT (%) | ELONGATION AT BREAK (%) | TENSILE STRENGTH (MPa) | HDT (°C) | REMARKS |
|---|---|---|---|---|---|---|
| COLPOLY 7200 AI-LV | DCPD | 37 | 3.0 | 75 | 80 | Rapid fill times, low viscosity, resistance to print-through, preaccelerated. |
| COLPOLY 7810 AI | IPA/NPG | 41 | 3.0 | 65 | 80 | Rapid fill times, resistance to print-through, preaccelerated, Lloyd's approval. |
| COLPOLY H 7030 AI | VE/DCPD | 45 | 2.5–3.5 | 65–70 | 90 | Medium reactivity, excellent mechanical properties, preaccelerated resin. |
| COLVINYL VE 110 I | VE | 38 | 4.5–5.0 | 85–90 | 110 | Low viscosity, excellent corrosion resistant, low shrinkage, preaccelerated. |

## FIRE RETARDANT RESINS

| PRODUCT | CHEMICAL NATURE | REACTIVE MONOMER CONTENT (%) | ELONGATION AT BREAK (%) | TENSILE STRENGTH (MPa) | HDT (°C) | REMARKS |
|---|---|---|---|---|---|---|
| COLPOLY 7604 D | DCPD | 25 | 2 | 70 | 70 | Pre-accelerated, non-halogenated thixotropic resin, DIN 5510 – Part 2 S4 SR2 ST2. |
| COLPOLY 7605 | DCPD | 25 | 2.5 | 60 | 95 | Intumescent fire retardant system of resin with COLGEL GC 647 approved according to EN 45545-2. |
| COLPOLY 7608 | DCPD | 33 | 3.0–3.5 | 65 | 80 | Preaccelerated, contains barrier-forming agents to reduce styrene emission and halogenated fire retardant resin, DIN 5510 – Part 2 S4 SR2 ST2. |

*Technical information for a respective product can be obtained from our team of dedicated salespeople.

## FILAMENT WINDING

| PRODUCT | CHEMICAL NATURE | REACTIVE MONOMER CONTENT (%) | ELONGATION AT BREAK (%) | TENSILE STRENGTH (MPa) | HDT (°C) | REMARKS |
|---|---|---|---|---|---|---|
| COLPOLY RP 7015/9 | DCPD | 30 | 2.5 | 70 | 85 | Chemical resistance, low styrene content. |
| COLPOLY 7166 | IPA/NPG | 40 | 4.5 | 60 | 90 | Excellent mechanical properties, high HDT, liner, adhesion on PVC. |
| COLPOLY 7543 | OPA | 35 | 3.5 | 75 | 90 | Excellent mechanical properties, outstanding durability, chemical resistance. |
| COLPOLY 7854 | IPA/TPA | 40 | 4.0 | 90 | 100 | Chemical resistance. |

## BASE RESINS FOR GEL COATS, TOP COATS AND PIGMENT CONCENTRATES

| PRODUCT | CHEMICAL NATURE | REACTIVE MONOMER CONTENT (%) | ELONGATION AT BREAK (%) | TENSILE STRENGTH (MPa) | HDT (°C) | REMARKS |
|---|---|---|---|---|---|---|
| COLPOLY 7100 | Maleic | free | - | - | - | Grinding medium for pigment concentrates. |
| COLPOLY 7160 | IPA/NPG | 40 | 4.0 | 85 | 100 | Base resin for gel coats, UV stabilised, Lloyd's approval. |
| COLPOLY 7172 | IPA | 33 | 5.0 | 85 | 95 | Base resin for gel coats, Lloyd's approval. |

## BONDING PASTES

bonding pastes of various chemical nature: VE, hybrid VE/DCPD, THPA for various applications: marine, transporting

*Technical information for a respective product can be obtained from our team of dedicated salespeople.

# IV. GEL COATS, TOP COATS AND PIGMENT CONCENTRATES

## GEL COATS AND TOP COATS

| PRODUCT | SEGMENT | CHEMICAL NATURE | APPLICATION | SHADE | REMARKS |
|---|---|---|---|---|---|
| COLGEL GC 100 series | General purpose | IPA or IPA/NPG | Spray or brush | Not pigmented or industrial white or RAL or custom-matched. | |
| COLGEL GC 200 series | Marine | IPA/NPG | Spray or brush | Not pigmented or industrial white or RAL or custom-matched. | DNV approved. |
| COLGEL GC 300 series | Sanitary | IPA/NPG | Spray | Not pigmented or industrial white or RAL or custom-matched. | |
| COLGEL GC 400 series | Transportation | IPA or IPA/NPG | Spray or brush | Not pigmented or industrial white or RAL or custom-matched. | |
| COLGEL GC 500 series | Tooling | VE | Brush | Not pigmented or black. | |
| COLGEL GC 600 series | Special properties | IPA | Spray or brush | Not pigmented or industrial white or RAL or custom-matched. | E.g. fire retardant. |
| COLGEL TC 600 series | Special properties | IPA or IPA/NPG or VE | Brush | Not pigmented or industrial white or RAL or custom-matched. | Top coat product line. |

## PIGMENT CONCENTRATES

| MONO-PIGMENT CONCENTRATES | | | |
|---|---|---|---|
| COLGEL PK WHITE 1265 | COLGEL PK VIOLET RL | COLGEL PK MELON YELLOW 1032 | COLGEL PK ORANGE RED 1024 |
| COLGEL PK BLACK 1267 | COLGEL PK BLUE 1108 | COLGEL PK SIGNAL YELLOW 1042 | COLGEL PK OXIDE RED 1004 |
| COLGEL PK OXIDE BLACK | COLGEL PK CITRON YELLOW 1043 | COLGEL PK GREEN 1158 | COLGEL PK OXIDE RED 1007 |
| COLGEL PK VIOLET CQV | COLGEL PK LEMON YELLOW 1044 | COLGEL PK SIGNAL RED 1018 | COLGEL PK OCHER 1084 |

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