## QUICK REFERENCE GUIDE TO LUBRIZOL RESINS FOR WOOD COATINGS

### WATER-BASED – RESINS FOR DIY/CONTRACTOR APPLIED WOOD FINISHES

- **Aptalon™ W8030** – self-crosslinking and self-matting polyurethane dispersion with excellent matt appearance, hardness and chemical resistance
- **Carboset® 420 EU Select** – oil modified copolymer with high renewable content for low VOC systems
- **Carboset® AM0 400 EU Select** – acrylic modified oil based copolymer for ultra low VOC systems, ideal as a wood sealer
- **Carboset® CR-726 EU Select** – self-crosslinking polyurethane dispersion with toughened and chemically resistant
- **Carboset® 2968** – low VOC systems are defined as systems with <140 g/l via US EPA Method 24 <75 g/l EU Method)
- **Turboset™ Ultra Eco EU Select** – self-crosslinking polyurethane composite for ultra low VOC formulations

### WATER-BASED – RESINS FOR OEM APPLIED WOOD FINISHES

- **Carboset® AM0 400 EU Select** – acrylic modified oil based resin for ultra low VOC sealers and stains
- **Carboset® CR-735 EU Select** – self-crosslinking acrylic emulsion with very high films with great chemical resistance
- **Aptalon™ W8060** – self-crosslinking polyurethane composite with outstanding chemical resistance
- **Aptalon™ W8080** – ultra low VOC coatings with high solids modified silica dispersion
- **Lanco™ TF 1725** – micronized hard hydrophylic PE wax
- **Lanco™ TF 1778** – micronized PTFE modified PE wax
- **Lanco™ 1394 LF** – micronized proprietary copolymer blend
- **Lanco™ PP1362D** – micronized PTFE-modified wax

### WATER-BASED – RESINS FOR STAINS

- **Carboset® AM0 400 EU Select** – acrylic modified oil based resin for ultra low VOC systems with long open times
- **Carboset® AM0 400 EU Select** – acrylic modified oil based resin for ultra low VOC systems with long open times
- **Lanco™ 1410 LF** – micronized polyolefin compound
- **Lanco™ 1588 LF** – micronized polyolefin compound
- **Lanco™ Glidd 6445** – micronized modified PE wax
- **Lanco™ Glidd 9530** – micronized polyolefin compound
- **Lanco™ Liquimat 6000** – propiatory liquid matting agent
- **Lanco™ Liquimat 6040** – propiatory liquid matting agent
- **Lanco™ Liquimat 6375** – propiatory liquid matting agent

### HYPERDISPERSANTS

- **Solsperse™ 32000** – 100% active polymeric dispersant
- **Solsperse™ 34000** – 100% active polymeric dispersant in water and DIA
- **Solsperse™ 35000** – 100% active polymeric dispersant in water
- **Solsperse™ 38000** – 100% active polymeric dispersant in MPA
- **Solsperse™ 40000** – 100% active polymeric dispersant in water
- **Solsperse™ 42000** – 100% active polymeric dispersant
- **Solsperse™ 45000** – 100% active polymeric dispersant in MPA
- **Solsperse™ 48000** – 100% active polymeric dispersant

### SURFACE MODIFIERS

- **Lanco™ PEW 1555 N** – micronized hardened hydrophobic PE wax
- **Aquasip™ 677** – vertical PE wax emulsion
- **Lanco™ Gild 618** – dispersed polyethylene
- **Lanco™ Gild 6445** – dispersed polyethylene
- **Lanco™ Gild 9530** – dispersed PTFE-modified wax
- **Lanco™ Liquimat 6040** – dispersed proprietary wax compound
- **Lanco™ Liquimat 6375** – dispersed proprietary wax

### QUICK REFERENCE GUIDE TO LUBRIZOL ADDITIVES FOR WOOD COATINGS

### WATER-BASED

- **Lanco™ PEW 1555 N** – micronized hardened hydrophobic PE wax
- **Aquasip™ 677** – vertical PE wax emulsion
- **Lanco™ Gild 618** – dispersed polyethylene
- **Lanco™ Gild 6445** – dispersed polyethylene
- **Lanco™ Gild 9530** – dispersed PTFE-modified wax
- **Lanco™ Liquimat 6040** – dispersed proprietary wax compound
- **Lanco™ Liquimat 6375** – dispersed proprietary wax compound

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### SURFACE MODIFIERS

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- **Lanco™ Liquimat 6375** – dispersed proprietary wax compound

### WATER OR SOLVENT-BASED

- **Humectant GR83** – propiatory blend of low VOC polyols
- **Solsperse™ 45000** – 100% active polymeric dispersant for inorganic pigments

### SOLVENT-BASED

- **Solsperse™ 32000** – 100% active polymeric dispersant in n-butyl acetate
- **Solsperse™ 36000** – 100% active polymeric dispersant in Solvesso 100
- **Solsperse™ 38000** – 100% active polymeric dispersant in MPA
- **Solsperse™ 39000** – 100% active polymeric dispersant
- **Solsperse™ 41000** – 100% active polymeric dispersant for inorganic pigments
- **Solsperse™ 42000** – 100% active polymeric dispersant in MPA

### UV

- **Solsperse™ 32000** – 100% active polymeric dispersant
- **Solsperse™ 36000** – 100% active polymeric dispersant
- **Solsperse™ 38000** – 100% active polymeric dispersant in MPA
- **Solsperse™ 41000** – 100% active polymeric dispersant for inorganic pigments
- **Solsperse™ 42000** – 100% active polymeric dispersant in MPA

### UV OR WATER-BASED

- **Solsperse™ 79000** – 100% active polymeric dispersant especially for dispersing UV flame retardant pigments
Lubrizol maintains extensive product testing capabilities that help ensure formulated coatings solutions for customers will deliver intended protection, durability and aesthetic performance.

A worldwide network of labs and facilities that continues to expand is aligned with the global market needs of our customers, allowing us to bring localized service.

By fully engaging with customers to understand their specific market needs, Lubrizol is well prepared to help formulate solutions for unique and differentiated performance.

Lubrizol “adds” the right elements to help our customers formulate differentiated performance in their coatings products, including unique solutions that make wood more durable and more beautiful.

Lubrizol is dedicated to helping our customers by understanding their needs and developing the Key Ingredients demanded for today’s marketplace. We invite you to learn more about our diversified portfolio of resins and additives for wood coatings by visiting www.lubrizol.com/wood. Or better yet, contact your Lubrizol representative to see first-hand how we can work with you to find an effective, efficient solution to meet your production benchmarks.

Lubrizol is committed to market-driven product innovation derived from core competencies in resins & binders, hyperdispersants, surface modifiers, specialty additives and formulated solutions.

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Lubrizol maintains an extensive understanding of the market needs for various surface applications that allows us to help solve highly specialized coatings challenges with our customers.

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**PERFORMANCE GUIDE TO LUBRIZOL RESINS & SURFACE MODIFIERS**

### RESINS FOR DIY/CONTRACTOR APPLICATIONS

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>SCRATCH RESISTANCE</th>
<th>ABRASION RESISTANCE</th>
<th>EARLY HARDNESS DEVELOPMENT</th>
<th>CHEMICAL RESISTANCE</th>
<th>BLACK HEEL MARK RESISTANCE</th>
<th>FILM HARDNESS</th>
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### RESINS FOR OEM APPLICATIONS

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### RESINS FOR STAINS

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<th>PRODUCT NAME</th>
<th>LOW VOC</th>
<th>OPEN TIME</th>
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*EU Select means resin does not have NMP, NEP, or APEO contained in the recipe nor used in the process. They are targeted for applications in Europe but also available for sale in other countries.

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### WOOD & GENERAL INDUSTRIAL METAL COATINGS – SOLVENT-BASED

#### SCRATCH RESISTANCE

- Carbocure® 7000
- Lanco™ 1390 LF
- Lanco™ 1390 F
- Lanco™ 1400 SF
- Lanco™ 1394 LF
- Lanco™ TF 1725
- Lanco™ TF 1720
- Lanco™ TF 1788
- Lanco™ Antimar 450 C
- Lanco™ Glidd 3520
- Lanco™ Liquimatt 5730

#### MATTING

- Diluting Effect

#### IMPACT ON VISCOSITY

- Diluting Effect

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### UV CURABLE COATINGS & INKS

#### SCRATCH RESISTANCE

- Carboset® 7000
- Lanco™ 1380 F
- Lanco™ 1394 F
- Lanco™ 1394 LF
- Lanco™ TF 1725
- Lanco™ TF 1788

#### SOFT FEEL/SURFACE SLIP

- Diluting Effect

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*All Lubrizol surface modifiers shown are available for sale in the EU as well as other regions. Please check the SDS for the most up-to-date information.*
**PERFORMANCE GUIDE TO LUBRIZOL HYPERDISPERSANTS**

### HYPERDISPERSANTS FOR WATER-BASED WOOD COATINGS

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>INORGANIC PIGMENTS</th>
<th>ORGANIC PIGMENTS</th>
<th>RESIN-FREE MILLING</th>
<th>MILLING RESIN CONTAINING</th>
<th>PIGMENT LOADING MILLBASE VISCOSITY</th>
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**Solsperse™ 32000**
- Solsperse™ 36000
- Solsperse™ 39000
- Solsperse™ 41000
- Solsperse™ 71000
- Solsperse™ 79000

**Solsperse™ 5000S Synergist** – for use on organic blues/greens and carbon black pigments in solvent-based systems

**Solsperse™ 12000S Synergist** – for use on organic blues/greens and carbon black pigments in water- and alcohol-based systems

**Solsperse™ 22000 Synergist** – for use on certain organic reds and yellow pigments in solvent based systems

**Recommended Hyperdispersant : Synergist ratios**
- 4 : 1 for carbon black pigment
- 4 : 1 for organic blue/green pigment
- 9 : 1 for organic red/yellow pigment

### HYPERDISPERSANTS FOR EB/UV WOOD COATINGS

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>INORGANIC PIGMENTS</th>
<th>ORGANIC PIGMENTS</th>
<th>SILICA MATING AGENT</th>
<th>SOLVENT-FREE</th>
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</table>

**SOLSOL™ 50005 Synergist** – for use on organic blues/greens and carbon black pigments in solvent-based systems

**SOLSOL™ 120005 Synergist** – for use on organic blues/greens and carbon black pigments in water- and alcohol-based systems

**SOLSOL™ 22000 Synergist** – for use on certain organic reds and yellow pigments in solvent based systems

With certain organic pigments, it may be advantageous to include the use of a Solsperse synergist in combination with the polymeric Solsperse hyperdispersant. The synergist helps to improve the interaction between the hyperdispersant and the surface of certain organic pigments (e.g. phthalocyanine blues, greens) and carbon black pigments. The synergist hyperdispersants include:

**All Lubrizol hyperdispersants shown are available for sale in the EU as well as other regions. Please check the SDS for the most up-to-date information.**

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Hyperdispersants for **Solsperse Hyperdispersant**
- **Solsperse™ 37000**
- **Solsperse™ 40000**
- **Solsperse™ 44000**
- **Solsperse™ 45000**
- **Solsperse™ 54000**
- **Solsperse™ W100**
- **Solsperse™ W200**
- **Solsperse™ W320**
- **Solsperse™ WV400**

**Solsperse™ 32000**
- **Solsperse™ 36000**
- **Solsperse™ 39000**
- **Solsperse™ 41000**
- **Solsperse™ 71000**
- **Solsperse™ 79000**

**Solsperse™ 5000S Synergist** – for use on organic blues/greens and carbon black pigments in solvent-based systems

**Solsperse™ 12000S Synergist** – for use on organic blues/greens and carbon black pigments in water- and alcohol-based systems

**Solsperse™ 22000 Synergist** – for use on certain organic reds and yellow pigments in solvent based systems

**Recommended Hyperdispersant : Synergist ratios**
- 4 : 1 for carbon black pigment
- 4 : 1 for organic blue/green pigment
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Hyperdispersants for **Solsperse Hyperdispersant**
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- **Solsperse™ 39000**
- **Solsperse™ 41000**
- **Solsperse™ 71000**
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**Solsperse™ 5000S Synergist** – for use on organic blues/greens and carbon black pigments in solvent-based systems

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**Solsperse™ 22000 Synergist** – for use on certain organic reds and yellow pigments in solvent based systems

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All Lubrizol hyperdispersants shown are available for sale in the EU as well as other regions. Please check the SDS for the most up-to-date information.
## BENEFITS

### TYPICAL PHYSICAL PROPERTIES

### FOR DIY/CONTRACTOR APPLIED COATINGS

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>PRODUCT TYPE</th>
<th>PRIMARY BENEFIT</th>
<th>SECONDARY BENEFIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aptalon® WR60</td>
<td>Self-Crosslinking Polyurethane Composite</td>
<td>Hardness, chemical resistance, scratch resistance; Excellent for sports floors</td>
<td>Black heel mark resistance, abrasion resistance</td>
</tr>
<tr>
<td>Carboset® 420</td>
<td>Oil Modified Copolymer</td>
<td>Renewable resin providing excellent water and chemical resistance; Exterior durability; Low VOC1 capable</td>
<td>Self-crosslinking for excellent wear</td>
</tr>
<tr>
<td>Carboset® AMO 400</td>
<td>Acrylic Oil Modified Copolymer</td>
<td>High renewable resin providing high melt temperature for high speed sanding; Low VOC1 capable</td>
<td>Improved toughness; black heel mark and abrasion resistance over acrylic polymer</td>
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<td>Carboset® 2968</td>
<td>Self-Crosslinking Acrylic Emulsion</td>
<td>Early hardness and sandability</td>
<td>Chemical resistance</td>
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<td>Carboset® 7722</td>
<td>Acrylic Emulsion</td>
<td>Scratch resistance in all sheens</td>
<td>Adhesion and stain blocking</td>
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<td>Carboset® 7735</td>
<td>Acrylic Emulsion</td>
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<td>Polyurethane Dispersion</td>
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<td>Sancure™ 976</td>
<td>Polyurethane Composite</td>
<td>Hardness, chemical resistance</td>
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<td>Sancure™ 9404</td>
<td>Polyurethane Dispersion</td>
<td>Mar, scuff and wear resistance</td>
<td>Wide formulating latitude; Crosslinkable</td>
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<td>Polyurethane Acrylic Blend</td>
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<td>Sancure® OM-945</td>
<td>Oil Modified Urethane Dispersion</td>
<td>Higher solids content</td>
<td>Exterior durability; version of OM933</td>
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<td>Turboset™ 2027</td>
<td>Self-Crosslinking Polyurethane Composite</td>
<td>Chemical and stain resistance</td>
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<td>Turboset™ Ultra Eco</td>
<td>Self-Crosslinking Polyurethane Composite</td>
<td>Formulates ultra low VOC1 finishes and maintains exceptional overall performance; Can be formulated to &lt;110 g/L VOC U.S. (120 g/L EU)</td>
<td>Black heel mark resistance, abrasion resistance, chemical resistance and adhesion</td>
</tr>
<tr>
<td>Turboset™ Ultra Pro</td>
<td>Self-Crosslinking Urethane Dispersion</td>
<td>Black heel mark resistance, hardness, excellent for sports floors</td>
<td>Chemical resistance</td>
</tr>
</tbody>
</table>

### FOR OEM/FACTORY APPLIED COATINGS

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>PRODUCT TYPE</th>
<th>PRIMARY BENEFIT</th>
<th>SECONDARY BENEFIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carboset® 2968</td>
<td>Self-Crosslinking Acrylic Emulsion</td>
<td>Early hardness and sandability</td>
<td>Chemical resistance</td>
</tr>
<tr>
<td>Carboset® AMO 400</td>
<td>Acrylic Modified Oil Copolymer</td>
<td>Hardness</td>
<td>Low VOC1 capable</td>
</tr>
<tr>
<td>Carboset® CR-726</td>
<td>Self-Crosslinking Acrylic Emulsion</td>
<td>Hardness</td>
<td>Low VOC1 capable</td>
</tr>
<tr>
<td>Carboset® CR-735</td>
<td>Self-Crosslinking Acrylic Emulsion</td>
<td>Chemical resistance</td>
<td>High gloss alkyd-like appearance</td>
</tr>
<tr>
<td>Sancure™ 845</td>
<td>Polyurethane Dispersion</td>
<td>Chemical and stain resistance</td>
<td>High gloss</td>
</tr>
<tr>
<td>Sancure® All-400</td>
<td>Polyurethane Acrylic Blend</td>
<td>Chemical resistance, particularly alcohol</td>
<td>Hard but flexible</td>
</tr>
<tr>
<td>Sancure® All-400</td>
<td>Urethane Acrylic Dispersion</td>
<td>Rapid hardness development</td>
<td>Mar, scuff and wear resistance</td>
</tr>
</tbody>
</table>

### FOR STAINS

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>PRODUCT TYPE</th>
<th>PRIMARY BENEFIT</th>
<th>SECONDARY BENEFIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carboset® 510</td>
<td>Acrylic Dispersion</td>
<td>Low VOC1</td>
<td>Excellent open time for wiping stains in small projects</td>
</tr>
<tr>
<td>Carboset® AMO 400</td>
<td>Acrylic Modified Oil Copolymer</td>
<td>Excellent open time for stains for large surfaces</td>
<td>Fast drying through time for quick recovery</td>
</tr>
</tbody>
</table>
### SURFACE MODIFIERS

Our selection of Lanco™, Carbocure™ and Aquaslip™ surface modifiers deliver a balanced mix of performance benefits to help coatings protect wood surfaces. We can tailor wood coating formulations to offer your customers the surface feel, durability and gloss or matte finish desired of high quality products.

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>PRODUCT TYPE</th>
<th>WATER-BASED</th>
<th>SOLVENT-BASED</th>
<th>UV</th>
<th>PRIMARY BENEFIT</th>
<th>SECONDARY BENEFIT</th>
<th>DV50 μm</th>
<th>DV90 μm</th>
<th>DENSITY (MM³ OR g/cm³) @ 20 °C (68 °F)</th>
<th>MELTING POINT °C</th>
<th>SOLVENT</th>
<th>% SOLID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquaslip™ 677</td>
<td>Modified Paraffin Wax Emulsion</td>
<td>☐</td>
<td></td>
<td></td>
<td>Improved slip and anti-blocking</td>
<td>Improved water resistance</td>
<td>0.95</td>
<td>64</td>
<td>Water 54-56</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquaslip™ 682</td>
<td>Oxidized Polyethylene Wax Emulsion</td>
<td>☐</td>
<td></td>
<td></td>
<td>Scratch and abrasion resistance</td>
<td>Anti-blocking</td>
<td>1</td>
<td></td>
<td>Water 40</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbocure™ 7000</td>
<td>Mattating Agent</td>
<td>☐</td>
<td></td>
<td></td>
<td>Uniform matting; smooth feel</td>
<td>Anti-burnishing; low viscosity</td>
<td>0.92</td>
<td>112</td>
<td>Water 95+</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Lanco™ 1370 LF</td>
<td>Modified Polyethylene Wax</td>
<td>☐</td>
<td></td>
<td></td>
<td>Matting efficiency</td>
<td>Good burnishing resistance</td>
<td>0.93</td>
<td>150</td>
<td>Water 100</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Lanco™ 1380 F</td>
<td>Proprietary Wax</td>
<td>☐</td>
<td></td>
<td></td>
<td>Matting efficiency toughness</td>
<td>Burnishing resistance</td>
<td>0.95</td>
<td>150</td>
<td>Water 100</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lanco™ 1394 F / LF</td>
<td>Polypropylene Wax</td>
<td>☐ ☐</td>
<td></td>
<td></td>
<td>Scratch and mar resistance</td>
<td>Smooth feel; Matting efficiency</td>
<td>0.90</td>
<td>140</td>
<td>Water 100</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Lanco™ 1400 SF</td>
<td>Modified Synthetic Wax</td>
<td>☐ ☐ ☐</td>
<td></td>
<td></td>
<td>Smooth surface finish, improved slip</td>
<td>Scratch and metal mark resistance</td>
<td>0.97</td>
<td>140</td>
<td>Water 100</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Lanco™ 1400 LF</td>
<td>Modified Synthetic Wax</td>
<td>☐ ☐ ☐</td>
<td></td>
<td></td>
<td>Scratch and abrasion resistance</td>
<td>Smooth surface feel</td>
<td>0.97</td>
<td>140</td>
<td>Water 100</td>
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<tr>
<td>Lanco™ 1552 F</td>
<td>Polar Modified Polyethylene Wax</td>
<td>☐</td>
<td></td>
<td></td>
<td>Scratch and abrasion resistance</td>
<td>Uniform matting</td>
<td>0.96</td>
<td>111</td>
<td>Water 100</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Lanco™ 1556 LF</td>
<td>Polar Modified Polyolefin Wax</td>
<td>☐</td>
<td></td>
<td></td>
<td>Anti-blocking</td>
<td>Scratch</td>
<td>0.96</td>
<td>95</td>
<td>Water 100</td>
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<tr>
<td>Lanco™ 1580 LF</td>
<td>Polyethylene Wax</td>
<td>☐ ☐</td>
<td></td>
<td></td>
<td>Scratch and abrasion resistance</td>
<td>Smooth surface feel</td>
<td>0.97</td>
<td>125</td>
<td>Water 100</td>
<td></td>
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</tr>
<tr>
<td>Lanco™ 1588 LF</td>
<td>Polyolefin Wax</td>
<td>☐ ☐</td>
<td></td>
<td></td>
<td>Surface hardness</td>
<td>Uniform matting</td>
<td>0.96</td>
<td>105</td>
<td>Water 100</td>
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<tr>
<td>Lanco™ A 1602</td>
<td>Fatty Acid Amido Wax</td>
<td>☐</td>
<td></td>
<td></td>
<td>Surface touch</td>
<td>Sandability</td>
<td>0.99</td>
<td>142</td>
<td>Butyl Acetate 50</td>
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</tr>
<tr>
<td>Lanco™ Antimar 450C</td>
<td>Modified Silicone Wax Dispersion</td>
<td>☐</td>
<td></td>
<td></td>
<td>Improved slip with mar resistance</td>
<td>Improved leveling</td>
<td>0.93</td>
<td>105</td>
<td>Aliphatic Hydrocarbon 60</td>
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<tr>
<td>Lanco™ Glidd 4370</td>
<td>Proprietary Wax Dispersion</td>
<td>☐</td>
<td></td>
<td></td>
<td>Water beading</td>
<td>Water resistance and repellency</td>
<td>0.85</td>
<td>105</td>
<td>Water 43</td>
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<tr>
<td>Lanco™ Glidd 6067</td>
<td>Polyethylene Wax Dispersion</td>
<td>☐</td>
<td></td>
<td></td>
<td>High gloss retention</td>
<td>Scratch resistance</td>
<td>0.98</td>
<td>105</td>
<td>Water 53</td>
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<tr>
<td>Lanco™ Glidd 614B</td>
<td>Polyolefin Wax Dispersion</td>
<td>☐</td>
<td></td>
<td></td>
<td>Scratch resistance</td>
<td>Matting efficiency</td>
<td>0.96</td>
<td>105</td>
<td>Water 53</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Lanco™ Glidd 6546</td>
<td>Proprietary Wax Dispersion</td>
<td>☐</td>
<td></td>
<td></td>
<td>High transparency</td>
<td>Scratch resistance; soft scratch</td>
<td>1.10</td>
<td>1.10</td>
<td>Water 63</td>
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<tr>
<td>Lanco™ Glidd 9550</td>
<td>PTFE-Modified Polyethylene Dispersion</td>
<td>☐</td>
<td></td>
<td></td>
<td>Scratch resistance</td>
<td>Metal marking resistance</td>
<td>1.00</td>
<td>102</td>
<td>Water 30</td>
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<tr>
<td>Lanco™ Liquidmat 6373 AF</td>
<td>Modified Silica Wax Dispersion</td>
<td>☐</td>
<td></td>
<td></td>
<td>Amine-free, efficient gloss control</td>
<td>Improved mar resistance</td>
<td>1.10</td>
<td>1.10</td>
<td>Water 50</td>
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<tr>
<td>Lanco™ PEW 1555 N</td>
<td>Polar Modified Polyethylene Wax</td>
<td>☐</td>
<td></td>
<td></td>
<td>Uniform matting</td>
<td>Scratch and abrasion resistance</td>
<td>0.99</td>
<td>105</td>
<td>Water 100</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Lanco™ TF 3720</td>
<td>PTFE-Modified PE</td>
<td>☐ ☐</td>
<td></td>
<td></td>
<td>Abrasion resistance</td>
<td>Improved slip</td>
<td>1.02</td>
<td>125</td>
<td>Water 100</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Lanco™ TF 3788</td>
<td>PTFE-Modified Polyethylene Wax</td>
<td>☐ ☐ ☐</td>
<td></td>
<td></td>
<td>Scratch and abrasion resistance</td>
<td>Slip and metal marking resistance</td>
<td>1.04</td>
<td>102</td>
<td>Water 100</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### PHYSICAL FORM

- Solvent
- VOC-free
- Waxy solid
- Liquid

### SOLVENT

- Water
- Solvesso
- Methoxy Propyl Acetate
- n-Butyl Acetate

### % ACTIVE INGREDIENT

- 50%
- 40%
- 50%
- 40%
- 50%
- 50%

### SUGGESTED STARTING DOSAGE (mg/m²)

- 2.0
- 2.0
- 2.0
- 2.0
- 2.0
- 2.5
- 2.5

### TYPICAL PHYSICAL PROPERTIES

- Increased pigment and matting agent concentration
- Organic, including silica
- Organic, silica
- Inorganic, silica
- Organic, inorganic, carbon black
- Organic, inorganic, carbon black
- Organic, inorganic, carbon black

### PRIMARY BENEFIT

- Higher gloss and pigment strength
- Higher gloss and pigment strength
- Improved flow and lower mill base viscosity
- Improved flow and lower mill base viscosity
- Improved flow and lower mill base viscosity
- Improved flow and lower mill base viscosity

### SECONDARY BENEFIT

- Lower cost
- Reduced cycle times
- Improved flow and lower mill base viscosity
- Improved flow and lower mill base viscosity
- Improved flow and lower mill base viscosity
- Improved flow and lower mill base viscosity

### PIGMENT TYPE

- Organic
- Organic
- Organic
- Organic
- Organic
- Organic

### SUITABLE FOR WATER-BASED

- Humectant™ GRB3
- Solsperse™ 47000
- Solsperse™ 49000
- Solsperse™ 44000
- Solsperse™ W100
- Solsperse™ W200
- Solsperse™ W320
- Solsperse™ WV400

### SUITABLE FOR SOLVENT-BASED

- Solsperse™ 32500
- Solsperse™ 36600
- Solsperse™ 38500
- Solsperse™ 35000
- Solsperse™ W200
- Solsperse™ W320
- Solsperse™ WV400

### SUITABLE FOR UV

- Solsperse™ 32000
- Solsperse™ 36000
- Solsperse™ 39000
- Solsperse™ 41000
- Solsperse™ 71000
- Solsperse™ 79000
- Solsperse™ M386

### PRODUCT NAME

- Humectant™ GRB3
- Solsperse™ 47000
- Solsperse™ 49000
- Solsperse™ 44000
- Solsperse™ W100
- Solsperse™ W200
- Solsperse™ W320
- Solsperse™ WV400
- Solsperse™ 32500
- Solsperse™ 36600
- Solsperse™ 38500
- Solsperse™ 35000
- Solsperse™ W200
- Solsperse™ W320
- Solsperse™ WV400
- Solsperse™ 32000
- Solsperse™ 36000
- Solsperse™ 39000
- Solsperse™ 41000
- Solsperse™ 71000
- Solsperse™ 79000
- Solsperse™ M386

### PRIMARY BENEFIT

- Offers improved humectancy over propylene glycol and can therefore be used at lower dosage levels
- Low foaming
- Viscosity stability of dispersion
- Early water resistance
- Wide compatibility on range of pigments
- Excellent color development on organic pigments
- Good affinity for organic pigments
- Higher gloss and pigment strength
- Improved rheology and stability
- Improved rheology and stability
- For multimedia colorants in esters and ketones, wide compatibility with other solvents
- Good affinity for organic pigments
- Higher gloss and pigment strength
- Non-yellowing of white coatings
- Dispersion and stability in UV coatings
- Prevents gelation during dispersion
- Lower gloss levels and higher silica loadings
- Improved fire retardant properties through dispersion flame retardant pigments in radiation-cured coatings
- Good affinity for organic pigments

### SECONDARY BENEFIT

- Economic dispersant for TiO₂ and fillers
- Organic, inorganic, carbon black
- Organic, silica
- Organic, inorganic, carbon black
- All pigments and fillers
- Organic, carbon black
- All pigments and fillers
- Organic, carbon black
- All pigments and fillers
- Organic, inorganic, carbon black
- Wider colorant compatibility
- Organic
- Organic
- Organic, including silica
- Organic, silica
- Improved flame clarity and rheology
- Organic
- Organic
- Organic
- Organic
- Organic

### PIGMENT TYPE

- All pigments and fillers
- Organic, inorganic, carbon black
- Inorganic, silica
- Organic, inorganic, carbon black
- All pigments and fillers
- Organic, carbon black
- All pigments and fillers
- Organic, carbon black
- All pigments and fillers
- Organic, inorganic, carbon black
- Inorganic including fillers
- Organic
- Organic, carbon black, untreated silica
- Organic, inorganic, carbon black
- Organic, including silica
- Organic, silica
- Flame retardant pigments, Inorganics
- Organic

### TYPICAL PHYSICAL PROPERTIES

- VOC-free
- Lower dosage requirement vs competitive dispersants
- Fast milling, capability of reduced cycle time
- Fast milling, capability of reduced cycle time
- Effective milling and storage stability over time
- Effective milling and storage stability over time
- Improved flow and lower mill base viscosity
- Particularly effective for inorganics
- Tinter stability
- Wider colorant compatibility
- Broad resin system compatibility
- Improved flow and lower mill base viscosity
- Higher gloss and opacity
- Easier handling
- Increased silica matting agent loadings
- Improved pigment and matting agent concentration
- Improved film clarity and rheology
- Broad resin system compatibility

*Also suitable for water-based
WHAT WE ADD MAKES THE DIFFERENCE.™

Lubrizol is a market-driven innovator of specialty chemicals that solve today’s challenges in the paints and coatings, printing and packaging, paper and textiles, plastics and composites and digital print markets. More than just a supplier, we are a collaborator with extensive experience in surface protection, dispersion, adhesion and barrier properties that enables us to enhance the performance, simplicity and sustainability benefits of our customers’ products. With a commitment to collaboration, applied science and demonstrated value, our team of experts is dedicated to exceeding customer expectations for both the simplest and toughest requirements. Count on Lubrizol to make the difference.

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