Coatings and inks additive

Selection guide
A little makes a big splash!

It takes only a little of an additive from Dow to make the significant performance difference your customers demand from your paint, ink and coating formulations. DOWSIL™ and XIAMETER™ brand additives provide problem-solving performance.

- Use in waterborne or solventborne formulations
- Compatible with most binder systems
- High efficiency at low concentration levels to help lower raw materials costs
- Suitable for use in low-VOC, sustainably formulated products
- Formulated for versatility and ease of use

Problem-solving performance

For more than half a century, Dow has led the way in silicon-based technology and is a global leader in the development of problem-solving, silicon-based technologies used in paints, inks and coatings. Many of our additives impart a combination of benefits, giving you a high benefit-to-cost ratio. Whether you need foam control; improved pigment dispersion, surface wetting, leveling or adhesion; water resistance, mar resistance, slip, gloss or texturization; or any combination of benefits, silicon-based technology from Dow can help you achieve it.

Global resources, local expertise and support

With global manufacturing facilities, sales offices, research and development laboratories, and Technical Information Centers all linked to a worldwide network of expert local distributors, Dow is able to provide you with an exceptional level of service, support and value. Dow is known for outstanding technical support. Our team of experts will work hand-in-hand with yours to ensure your success with the amazingly versatile materials.
How to use this guide
This guide will help you explore the properties and performance capabilities of our global line of additives for paints, inks and coatings. Table 1 groups the additives by their primary benefit and describes their physical makeup, features, secondary benefits and properties. Table 2 highlights products available in sample size via our Additive Sample Program.

About concentrations and blending
The amount of additive required to achieve a particular benefit depends on the type of formulation, the solvent it contains, the resin system and total system solids. Generally, our additives are effective at the concentrations noted in Table 1. Since advantages do not increase proportionally, avoid using excess amounts. Additives from Dow are usually added during grind or let-down, or they are post-added. However, some may be added during any processing stage. See Table 1 for additional information.
**Table 1: Features, typical use and properties of additives from Dow**

(Products are listed under their primary benefit)

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Features/benefits</th>
<th>Compatible binder systems</th>
<th>Point of addition</th>
<th>Typical concentration</th>
<th>Suitable diluents</th>
<th>Reactive groups</th>
<th>Solvent</th>
<th>Viscosity at 25ºC (77ºF), cSt</th>
<th>Food contact compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOWSIL™ 11 Additive</td>
<td>Silicone polymer copolymer; 10% active</td>
<td>Increases mar resistance of solventborne coatings; also improves leveling and gloss and prevents pigment separation</td>
<td>Solventborne acrylic, alkyd, amide, epoxy, nitrocellulose, polyester, polyurethane, vinyl</td>
<td>Grind, let-down or post add</td>
<td>0.1-0.5%</td>
<td>Aromatics such as xylene or toluene; mineral spirits or ketones</td>
<td>Carbinol</td>
<td>Toluene</td>
<td>1.0-2.0</td>
<td>Swiss Ordinance RS 817.023.21 Annex 10 Part A or B</td>
</tr>
<tr>
<td>DOWSIL™ 14 Additive</td>
<td>Silicone polymer copolymer; 10% active</td>
<td>Improves slip and mar resistance; provides leveling in waterborne and solventborne coatings</td>
<td>Acrylic, alkyd, epoxy, polyester, polyurethane</td>
<td>Grind, let-down or post add</td>
<td>0.1-0.5%</td>
<td>Water or alcohols</td>
<td>Carbinol</td>
<td>Isopropanol</td>
<td>&lt; 10</td>
<td>Swiss Ordinance RS 817.023.21 Annex 10 Part A or B</td>
</tr>
<tr>
<td>DOWSIL™ 18 Additive</td>
<td>Dispersion of high molecular weight polymethylsiloxane and silicone surfactant; 100% active</td>
<td>Provides slip and mar resistance in waterborne and solventborne coatings; anti-blocking in waterborne coatings</td>
<td>Acrylic, polyester, polyurethane (waterborne and solventborne)</td>
<td>Let-down or post add</td>
<td>0.1-1.0%</td>
<td>Water</td>
<td>None</td>
<td>None</td>
<td>250,000-650,000</td>
<td>Swiss Ordinance RS 817.023.21 Annex 10 Part A or B</td>
</tr>
<tr>
<td>DOWSIL™ 27 Additive</td>
<td>Non-reactive silicone glycol copolymer; 100% active</td>
<td>Effective at mar resistance and slip while maintaining gloss; reduced coefficient of friction</td>
<td>Water-based acrylic flexographic ink and UV overprint varnish</td>
<td>Let-down or post add</td>
<td>0.1-1.0%</td>
<td>Water and suitable solvents</td>
<td>None</td>
<td>None</td>
<td>275</td>
<td>FDA 176.210</td>
</tr>
<tr>
<td>DOWSIL™ 29 Additive</td>
<td>Silicone polymer copolymer</td>
<td>Imparts mar resistance to waterborne and solventborne coatings; also improves leveling and substrate wetting; provides anti-blocking</td>
<td>Acrylic, epoxy, polyurethane</td>
<td>Grind, let-down or post add</td>
<td>0.1-1.0%</td>
<td>Water or alcohols</td>
<td>Carbinol</td>
<td>None</td>
<td>200-500</td>
<td>Swiss Ordinance RS 817.023.21 Annex 10 Part A or B</td>
</tr>
<tr>
<td>DOWSIL™ 51 Additive</td>
<td>Dispersion of high molecular weight polysiloxane and silicone surfactants; 80% active</td>
<td>Imparts mar resistance and slip to waterborne coatings; may also provide room temperature anti-blocking</td>
<td>Waterborne acrylic, alkyd, epoxy, nitrocellulose, polyester, polyurethane, vinyl</td>
<td>Grind, let-down or post add</td>
<td>0.05-3.0%</td>
<td>Water</td>
<td>Silanol</td>
<td>Water</td>
<td>200,000-750,000</td>
<td>Swiss Ordinance RS 817.023.21 Annex 10 Part A or B</td>
</tr>
<tr>
<td>DOWSIL™ 52 Additive</td>
<td>Dispersion of high molecular weight polysiloxane and silicone surfactants; 64% active</td>
<td>Imparts mar resistance and slip to waterborne coatings; may also provide room temperature anti-blocking</td>
<td>Waterborne acrylic, polyurethane</td>
<td>Let-down or post add</td>
<td>0.01-3.5%</td>
<td>Water</td>
<td>Silanol</td>
<td>Water</td>
<td>3,000-5,000</td>
<td>Swiss Ordinance RS 817.023.21 Annex 10 Part A or B</td>
</tr>
<tr>
<td>DOWSIL™ 54 Additive</td>
<td>Silicone polymer copolymer</td>
<td>Provides mar resistance, slip and leveling in waterborne and solventborne coatings; aids defoaming in some systems</td>
<td>Solventborne acrylic, alkyd, epoxy, polyester, polyurethane, vinyl, waterborne acrylic and polyester</td>
<td>Let-down or post add</td>
<td>0.05-1.0%</td>
<td>Aromatics such as xylene or toluene, mineral spirits</td>
<td>Carbinol</td>
<td>None</td>
<td>149-185</td>
<td>Swiss Ordinance RS 817.023.21 Annex 10 Part A or B, bfr 15-0002, bfr 36-0002</td>
</tr>
<tr>
<td>DOWSIL™ 55 Additive</td>
<td>Silicone polymer copolymer; 10% active</td>
<td>Increases slip and mar resistance in waterborne and solventborne coatings</td>
<td>Waterborne acrylic, alkyd, solventborne polyurethane</td>
<td>Post add</td>
<td>0.1-0.5%</td>
<td>Water or alcohols</td>
<td>Carbinol</td>
<td>2-butoxy-ethanol</td>
<td>6</td>
<td>Swiss Ordinance RS 817.023.21 Annex 10 Part A or B</td>
</tr>
<tr>
<td>DOWSIL™ 205SL Additive</td>
<td>Silicone polymer copolymer; 50% active</td>
<td>Superior hand feel modifier for multiple delivery coating systems; lowers coefficient of friction (CoF); foam control; also effective in solventborne coatings</td>
<td>Waterborne acrylic, polyurethane, alkyd, solventborne polyurethane, polyester; UV acrylate</td>
<td>Let-down</td>
<td>0.1-1.0%</td>
<td>Alcohols, glycol ethers and aromatic solvents</td>
<td>Carbinol</td>
<td>Ethylene glycol isopropyl ether</td>
<td>25-60</td>
<td>Swiss Ordinance RS 817.023.21 Annex 10 Part A or B</td>
</tr>
<tr>
<td>DOWSIL™ 210S Additive</td>
<td>Ultra-high molecular weight silicone dispersion in water</td>
<td>Strong reduction in coefficient of friction, cost effective slip additive; very good mar and abrasion resistance; may also provide room temperature anti-blocking; good compatibility and low tendency to cause craters</td>
<td>Waterborne acrylic, polyurethane dispersion</td>
<td>Let-down or post add</td>
<td>0.1-0.3%</td>
<td>Water</td>
<td>Silanol</td>
<td>Water</td>
<td>200-1000</td>
<td>Swiss Ordinance RS 817.023.21 Annex 10 Part A or B</td>
</tr>
</tbody>
</table>
Table 1: Features, typical use and properties of additives from Dow\textsuperscript{[1]} (continued)

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Features/benefits</th>
<th>Compatible binder systems</th>
<th>Point of addition</th>
<th>Typical concentration\textsuperscript{[2]}</th>
<th>Suitable diluents\textsuperscript{[3]}</th>
<th>Reactive groups</th>
<th>Solvent</th>
<th>Viscosity at 25°C (77°F), cSt</th>
<th>Food contact compliance\textsuperscript{[4]}</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Foam control</strong></td>
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<td><strong>Fluorosilicones</strong></td>
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</tr>
<tr>
<td>DOWSIL™ 100F Additive</td>
<td>Fluorosilicone; 1% active</td>
<td>Foam control agent in solventborne and radiation-curable coatings; good for high-solids formulations</td>
<td>Grind, let-down or post add</td>
<td>0.1-1.0%</td>
<td>Ketones</td>
<td>None</td>
<td>Diisobutyl ketone</td>
<td>&lt; 5</td>
<td>Swiss Ordinance RS 817.023.21 Annex 10 Part A or B</td>
</tr>
<tr>
<td>DOWSIL™ 102F Additive</td>
<td>Fluorosilicone; 1% active</td>
<td>Provides foam control with good balance between effectiveness and compatibility</td>
<td>Grind, let-down or post add</td>
<td>0.5-0.7%</td>
<td>MEK and n-Propyl acetate</td>
<td>None</td>
<td>Methyl ethyl ketone and n-Propyl acetate</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>DOWSIL™ 8621 Additive</td>
<td>Fluorosilicone; 5% active</td>
<td>Foam control agent in solvent-based and radiation-curable/UV-curable coatings</td>
<td>Grind, let-down or post add</td>
<td>0.1-1.0%</td>
<td>MEK and n-Propyl acetate</td>
<td>None</td>
<td>Methyl ethyl ketone</td>
<td>0.94</td>
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<tr>
<td><strong>Emulsions</strong></td>
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</tr>
<tr>
<td>DOWSIL™ 62 Additive</td>
<td>Silicone emulsion; 57% active</td>
<td>Provides foam control in waterborne inks and coatings; good compatibility and low tendency to cause defects</td>
<td>Waterborne acrylic, polyurethane</td>
<td>Grind, let-down or post add</td>
<td>0.05-0.05%</td>
<td>Water</td>
<td>Silanol</td>
<td>Water</td>
<td>FDA 175.105, 176.210, Swiss Ordinance RS 817.023.21 Annex 10 Part A or B, bfr 14-0002</td>
</tr>
<tr>
<td>DOWSIL™ 68 Additive</td>
<td>Silicone emulsion; 50-55% active</td>
<td>Provides immediate and sustainable foam control in waterborne inks, wood coatings and paints</td>
<td>Acrylic, polyurethane</td>
<td>Post add</td>
<td>0.05-0.05%</td>
<td>Water</td>
<td>Silanol</td>
<td>Water</td>
<td>1,000-3,000</td>
</tr>
<tr>
<td>DOWSIL™ 108F Additive</td>
<td>Silicone emulsion; 22.5% active</td>
<td>Provides foam control in waterborne coatings including wood coatings, architectural and inks; good compatibility and low tendency to cause defects</td>
<td>Water-based systems</td>
<td>Let-down</td>
<td>0.1-1.0%</td>
<td>Water</td>
<td>None</td>
<td>Water</td>
<td>1,600</td>
</tr>
<tr>
<td>XIAMETER™ AFE-0700 Antifoam Emulsion</td>
<td>Silicone antifoam emulsion; 10% active</td>
<td>Good foam control and high persistence over a wide pH and temperature range</td>
<td>Water-based systems</td>
<td>Added directly or during the let-down stage</td>
<td>0.05-1.0%</td>
<td>Water</td>
<td>None</td>
<td>None</td>
<td>1,750</td>
</tr>
</tbody>
</table>

\textsuperscript{[1]} These values are not intended for use in preparing specifications.

\textsuperscript{[2]} The typical concentrations are usage levels where the materials have performed successfully. Usage levels can vary depending on application and performance requirements. Please evaluate for optimum performance in each specific application.

\textsuperscript{[3]} Review the Safety Data Sheet for each solvent prior to use. Safety Data Sheets can be obtained from your solvent supplier.

\textsuperscript{[4]} Compliant at effective date of publication of this selection guide. Visit dow.com/customersupport to obtain food contact regulatory information, including FDA, EU, Swiss Ordinance and German BfR clearance. FDA Title 21 CFR - 175 (175.105, 175.300, 175.320) Indirect food additives: adhesives and components of coatings; 176 (176.130, 176.170, 176.180, 176.200, 176.210) Indirect food additives: paper and paper board components; 177 (177.1390, 177.2600, 177.1520(b)) Indirect food additives: polymers.

\textsuperscript{[5]} Use level not to exceed 0.015%.
Table 1: Features, typical use and properties of additives from Dow[1] (continued)

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<th>Suitable diluents[^2]</th>
<th>Reactive groups</th>
<th>Solvent</th>
<th>Viscosity at 20ºC (cSt), eSt</th>
<th>Food contact compliance[^4]</th>
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<td><strong>Foam control (continued)</strong></td>
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<tr>
<td><strong>Self-dispersible compounds</strong></td>
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</tr>
<tr>
<td>DOWSIL™ 71 Additive</td>
<td>Organo-modified silicone copolymer</td>
<td>Provides foam control in waterborne coatings, especially ink and clear wood coatings; balancing effective foam control and surface appearance</td>
<td>Waterborne acrylic</td>
<td>Let-down or post add</td>
<td>0.1-0.5%</td>
<td>Alcohols, glycol ethers and ester alcohol</td>
<td>None</td>
<td>None</td>
<td>350-900</td>
<td>FDA 176.170[^10], \Swiss Ordinance RS 817.023.21 Annex 10 Part A or B, bfr 15-0002, bfr 36-0002</td>
</tr>
<tr>
<td>DOWSIL™ 74 Additive</td>
<td>Organo-modified silicone copolymer</td>
<td>Provides foam control in waterborne coatings, especially wood coatings; balancing effective foam control and surface appearance</td>
<td>Waterborne acrylic</td>
<td>Let-down or post add</td>
<td>0.1-0.5%</td>
<td>Alcohols and glycol ethers</td>
<td>Carbinol</td>
<td>None</td>
<td>350-1,400</td>
<td>FDA 176.210, \Swiss Ordinance RS 817.023.21 Annex 10 Part B, bfr 15-0002, bfr 36-0002</td>
</tr>
<tr>
<td>DOWSIL™ 163 Additive</td>
<td>Silicone anti-foam compound; 100% active</td>
<td>Provides foam control in waterborne, solventborne and radiation-cured coatings and inks</td>
<td>Waterborne and solventborne acrylic, epoxy, polyester, polyurethane, vinyl; also radiation-cured</td>
<td>Let-down or post add</td>
<td>0.1-1.0%</td>
<td>Glycols</td>
<td>Silanol</td>
<td>None</td>
<td>750-1,550</td>
<td>FDA[^11] 175.105, 175.300, 176.170, 176.180, 176.200, 176.210, \Swiss Ordinance RS 817.023.21 Annex 10 Part A or B, CN 9805.2016</td>
</tr>
<tr>
<td>DOWSIL™ 8550 Additive</td>
<td>Silicone anti-foam compound with silica; 100% active</td>
<td>Top choice for architecture applications; highly efficient anti-foam at low dosage for waterborne coating and ink system; no impact on gloss; low viscosity for easy dispersibility</td>
<td>Waterborne acrylic styrene emulsion paint, flexographic inks, acrylic overprint varnish, acrylic urethane emulsions</td>
<td>Grind, let-down after thickeners or post add</td>
<td>0.05-1.0%</td>
<td>Can be added directly or pre-diluted with alcohols or polyglycols</td>
<td>None</td>
<td>None</td>
<td>784</td>
<td>Swiss Ordinance RS 817.023.21 Annex 10 Part A or B</td>
</tr>
<tr>
<td>DOWSIL™ 8628 Additive</td>
<td>Silicone anti-foam compound with silica; 100% active</td>
<td>Effective foam control for waterborne coating and ink systems at low dosages; tendency toward low surface defects</td>
<td>Waterborne acrylic styrene emulsion paint, interior wall paint, flexo gravure inks, polyester acrylic, acrylic-modified amide</td>
<td>Grind, let-down or post add</td>
<td>0.05-1.0%</td>
<td>Can be added directly or pre-diluted with alcohols or polyglycols</td>
<td>None</td>
<td>None</td>
<td>900-3,600</td>
<td>Swiss Ordinance RS 817.023.21 Annex 10 Part A or B</td>
</tr>
<tr>
<td>DOWSIL™ 8553 Additive</td>
<td>100% organofunctional silicone</td>
<td>Effective foam control for waterborne coating systems</td>
<td>Waterborne UV-curable inks; waterborne wood stains, temps and varnishes</td>
<td>Added directly or during the let-down stage</td>
<td>0.05-1.0%</td>
<td>Glycol ether</td>
<td>None</td>
<td>None</td>
<td>4,000</td>
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<tr>
<td><strong>Release additives</strong></td>
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<tr>
<td>DOWSIL™ 1-9770 Additive</td>
<td>High viscosity, reactive silicone fluid</td>
<td>Provides release properties in clear or pigmented coatings; can be used in food contact applications</td>
<td>Polyester, silicones</td>
<td>Grind, let-down or post add</td>
<td>0.1-5.0%</td>
<td>Aromatic hydrocarbons, ketones, acetates and other suitable solvents</td>
<td>Silanol</td>
<td>None</td>
<td>11,000-14,000</td>
<td>FDA 175.105, 175.300, 176.170, 176.180, 176.200, 176.210, 177.226, 177.280, 178.312, 178.357, 178.391, 181.28, bfr 15-0002</td>
</tr>
</tbody>
</table>

[^1]: These values are not intended for use in preparing specifications.
[^2]: The typical concentrations are usage levels where the materials have performed successfully. Usage levels can vary depending on application and performance requirements. Please evaluate for optimum performance in each specific application.
[^3]: Review the Safety Data Sheet for each solvent prior to use. Safety Data Sheets can be obtained from your solvent supplier.
[^4]: Compliant at effective date of publication of this selection guide. Visit dow.com/CustomerSupport to obtain food contact regulatory information, including FDA, EU, Swiss Ordinance and German BfR clearance. FDA Title 21 CFR - 175 (175.105, 175.300, 175.320) Indirect food additives: adhesives and components of coatings; 176 (176.130, 176.170, 176.180, 176.200, 176.210) Indirect food additives: paper and paper board components; 177 (177.1390, 177.2600, 177.1520(b)) Indirect food additives: polymers.
[^5]: Chemically equivalent to DOWSIL™ Z-6032 Silane.
[^6]: Limitations may apply. Please contact Na.info@dow.com for more information.
[^7]: Use level not to exceed 0.025%.
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<th>Viscosity at 25°C (cSt)</th>
<th>Food contact compliance(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOWSIL™ 3 Additive</td>
<td>Silanol-functional (Si-OH) additive; 10% active</td>
<td>Improves pigment dispersion and reduces separation and flocculation in solventborne coatings; also provides leveling, flow-out and gloss</td>
<td>Solventborne acrylic, alkyd, polyester, epoxy, polyurethane</td>
<td>Grind, let-down or post add</td>
<td>0.1-0.5%</td>
<td>Aromatics such as xylene or toluene; mineral spirits or ketones</td>
<td>Silanol</td>
<td>Toluene</td>
<td>0.7-1.4</td>
<td>FDA 21 CFR 175.105, 175.300, 175.330</td>
</tr>
<tr>
<td>Dowzo Additive</td>
<td>Alkylo siloxane with organic group; 90% active</td>
<td>Titanium dioxide dispersant for high-grade and low-grade TiO₂; provides stabilization of pigment dispersion and prevents pigment flooding and floating</td>
<td>Solventborne inorganic filler dispersant</td>
<td>Combine with resins before adding pigment for grinding</td>
<td>0.02-4.0%</td>
<td>Xylene and butyl acetate</td>
<td>Alkoxy</td>
<td>Methanol</td>
<td>5.5</td>
<td>FDA 21 CFR 175.105, 175.300, 175.330</td>
</tr>
<tr>
<td>DOWSIL™ Z-6121 Silane</td>
<td>Aminoethylaminopropylalkoxysilane; 50% active</td>
<td>Improves adhesion of solventborne and waterborne coatings when bonded to glass or metal substrates; can be used as an additive or primer</td>
<td>Waterborne and solvathane acrylic, alkyd, epoxy, polyurethane</td>
<td>Grind for waterborne; let-down or post add for solvathane</td>
<td>Primer: dilute to 10% active; Additive: 0.1-5.0%</td>
<td>Alcohols and water</td>
<td>Amino; alkoxy-silyl</td>
<td>n-Butanol</td>
<td>&lt; 10</td>
<td>FDA 175.105</td>
</tr>
<tr>
<td>DOWSIL™ Z-6137 Silane</td>
<td>Aqueous solution of amino-functional silicone polymers; 22.5% active</td>
<td>Promotes adhesion of waterborne coatings to inorganic substrates</td>
<td>Waterborne polyether</td>
<td>Post add</td>
<td>0.1-5.0%</td>
<td>Water</td>
<td>Amino; silanol</td>
<td>Water</td>
<td>3-7</td>
<td>FDA 21 CFR 175.105, 175.300</td>
</tr>
<tr>
<td>XAMETER™ OFS-6011 Silane</td>
<td>Aminopropyltrimethoxysilane; 99% active</td>
<td>Adhesion promoter in waterborne and solventborne coatings and pigment treatment in waterborne coatings</td>
<td>Waterborne and solvathane acrylic, solvathane polyurethane; 2K acrylic epoxy for concrete and industrial maintenance</td>
<td>Grind or let-down</td>
<td>0.05-2.0%</td>
<td>Alcohols and water</td>
<td>Amino; ethoxy-silyl</td>
<td>None</td>
<td>&lt; 10</td>
<td>FDA 175.105, 175.300</td>
</tr>
<tr>
<td>XAMETER™ OFS-6020 Silane</td>
<td>Aminopropyltrimethoxysilane; 99% active</td>
<td>Adhesion promoter and pigment treatment in waterborne and solventborne coatings</td>
<td>Waterborne and solvathane acrylic, alkyd, epoxy, polyurethane</td>
<td>Grind, let-down or post add</td>
<td>Primer: dilute to 10% active in isopropanol; Additive: 0.5-2.0%</td>
<td>Alcohols and water</td>
<td>Amino; methoxy-silyl</td>
<td>None</td>
<td>&lt; 10</td>
<td>FDA 175.105, 175.300</td>
</tr>
<tr>
<td>XAMETER™ OFS-6030 Silane</td>
<td>Aminopropyltrimethoxysilane; 98% active</td>
<td>Improves adhesion of waterborne, solvathane and radiation-cured coatings to inorganic substrates when used as a primer or additive</td>
<td>Waterborne and solvathane acrylic, alkyd, epoxy, polyurethane, vinyl; radiation-cured acrylic</td>
<td>Let-down or post add</td>
<td>Primer: dilute to 0.1-0.5% active in acidified (pH &lt; 4.0) water; Additive: 0.1-3.0%</td>
<td>Alcohols and water</td>
<td>Methacrylate; methoxy-silyl</td>
<td>None</td>
<td>2.3-2.7</td>
<td>FDA 177.2465</td>
</tr>
<tr>
<td>XAMETER™ OFS-6032 Silane</td>
<td>Cationic vinylbenzyl and amino-functional methoxy-silane; 40% active</td>
<td>Adhesion promoter in waterborne and solventborne coatings; can be used as an additive or primer</td>
<td>Waterborne and solvathane acrylic, epoxy</td>
<td>Grind, let-down or post add</td>
<td>Primer: dilute with methanol or ethanol; water; Additive: 0.05-3.0 wt%</td>
<td>Alcohols and water</td>
<td>Amino; vinylbenzyl; methoxy-silyl</td>
<td>Methanol</td>
<td>1-3</td>
<td>FDA 177.1390, 179.2023.21 Annex 10 Part B</td>
</tr>
<tr>
<td>XAMETER™ OFS-6040 Silane</td>
<td>Glycidoxypropyltrimethoxysilane; 99% active</td>
<td>Adhesion promoter and pigment treatment in waterborne and solventborne coatings; can be used as an additive or primer</td>
<td>Waterborne and solvathane acrylic, alkyd, amine, polyurethane, vinyl;</td>
<td>Grind, let-down or post add</td>
<td>Primer: dilute to 10% active in isopropanol; Additive: 0.05-3.0%</td>
<td>Alcohols and water</td>
<td>Epoxy; methoxy-silyl</td>
<td>None</td>
<td>2.95-3.20</td>
<td>FDA 177.1390, 179.2023.21 Annex 10 Part B</td>
</tr>
<tr>
<td>XAMETER™ OFS-6300 Silane</td>
<td>Vinyltrimethoxysilane; 99% active</td>
<td>Bonds with inorganic surfaces through alkoxysilane; forms siloxane crosslinks via moisture cure</td>
<td>Solvathane acrylic, alkyd, epoxy, polyurethane; UV-curable epoxy</td>
<td>Alcohols and water</td>
<td>Alcohols and water</td>
<td>Vinyl; methoxy-silyl</td>
<td>None</td>
<td>0.56</td>
<td>FDA 177.1390, 179.2023.21 Annex 10 Part A or B</td>
<td></td>
</tr>
</tbody>
</table>

1. These values are not intended for use in preparing specifications.
2. The typical concentrations are usage levels where the materials have performed successfully. Usage levels can vary depending on application and performance requirements. Please evaluate for optimum performance in each specific application.
3. Review the Safety Data Sheet for each solvent prior to use. Safety Data Sheets can be obtained from your solvent supplier.
5. Chemically equivalent to DOWSIL™ Z-6022 Silane.
6. This product is an unreacted monomer. May be co-polymerized as stipulated in 177.3605(a).
7. May be used as an optional trimethoxysilane coupling agent in accordance with 177.1390(c)(2)(iv)(a).
### Table 1: Features, typical use and properties of additives from Dow (continued)

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Features/benefits</th>
<th>Compatible binder systems</th>
<th>Point of addition</th>
<th>Typical concentration$^{[a]}$</th>
<th>Suitable diluents$^{[a]}$</th>
<th>Reactive groups</th>
<th>Solvent</th>
<th>Viscosity at 25ºC (°F), cSt</th>
<th>Food contact compliance$^{[d]}$</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Water resistance</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>DOWSIL™ 64 Additive</td>
<td>Low-viscosity emulsion of silicone elastomer precursors; 60% active</td>
<td>Provides water resistance for waterborne systems, particularly inks</td>
<td>Mainly acrylics</td>
<td>Let-down or post add</td>
<td>1.0-5.0 %</td>
<td>Water</td>
<td>Silanol</td>
<td>Water</td>
<td>250-650</td>
</tr>
<tr>
<td>DOWSIL™ 85 Additive</td>
<td>Medium-viscosity emulsion of silicone elastomer precursors; 60% active</td>
<td>Provides water resistance for waterborne systems, particularly inks</td>
<td>Mainly acrylics</td>
<td>Let-down or post add</td>
<td>1.0-5.0 %</td>
<td>Water</td>
<td>Silanol</td>
<td>Water</td>
<td>34,000-46,000</td>
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<tr>
<td>DOWSIL™ 87 Additive</td>
<td>Emulsion; 38-44% active</td>
<td>Provides water repellency and water beading for waterborne systems with minimal effect on water vapor permeability; particularly for decorative paints</td>
<td>Acrylic, styrene-acrylics and vinyl acetate emulsions</td>
<td>Let-down or post add</td>
<td>1.0-5.0 %</td>
<td>Water</td>
<td>Ethoxy-silanil</td>
<td>Water</td>
<td>6</td>
</tr>
<tr>
<td>DOWSIL™ 88 Additive</td>
<td>Silicone emulsion; 60% active</td>
<td>General-purpose low-VOC hydrophobe to improve water resistance and water contact angle; may provide corrosion resistance for waterborne industrial metal coating</td>
<td>Water-based acrylic, styrene acryl and VAE systems</td>
<td>Let-down or post add</td>
<td>0.5-5.0 %</td>
<td>Water</td>
<td>Alkoxysilanil</td>
<td>Water</td>
<td>Not available</td>
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<tr>
<td>DOWSIL™ 902H Additive</td>
<td>Silicone-resin-based emulsion; 50% active</td>
<td>Co-binder for high-PVC siloxane paints; decreases water absorption through hydrophobization of pores; can be combined with a coagent additive to additionally achieve high water-contact-angle; may provide dirt pick up resistance</td>
<td>Water-based acrylic, styrene acryl and VAE systems</td>
<td>Let-down or post add</td>
<td>8.0-10.0 %</td>
<td>Water</td>
<td>Alkoxysilanil</td>
<td>Water</td>
<td>300-2,000</td>
</tr>
<tr>
<td>DOWSIL™ 903H Additive</td>
<td>Alkoxysilane and silicone resin emulsion; 52.5% active</td>
<td>Provides hot-water resistance in waterborne wood coatings; improves water resistance in various waterborne coatings</td>
<td>Water-based acrylic, styrene acryl and VAE systems</td>
<td>Let-down or post add</td>
<td>0.5-5.0 %</td>
<td>Water</td>
<td>Alkoxysilanil</td>
<td>Water</td>
<td>Not available</td>
</tr>
<tr>
<td>DOWSIL™ 904H Additive</td>
<td>Amino functional polydimethylsiloxane</td>
<td>Provides nont. trail resistance in high PVC (dark) colored paints and provides improved surface hydrophobicity and water repellency</td>
<td>Acrylic and styrene acryl high pigmented paint</td>
<td>Grind or let-down</td>
<td>1.5%</td>
<td>Typical coalescent used in architectural formulations</td>
<td>Amino</td>
<td>None</td>
<td>70</td>
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<tr>
<td>DOWSIL™ 906H Additive</td>
<td>Low VOC emulsion of silicone elastomer; 50% active</td>
<td>Provides water resistance for waterborne systems with little effect on water vapor permeability; can be used as a co-binder</td>
<td>Acrylic</td>
<td>Let-down or post add</td>
<td>1.0-10.0 %</td>
<td>Water</td>
<td>Silanol</td>
<td>Water</td>
<td>550</td>
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<tr>
<td><strong>Leveling, gloss</strong></td>
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</tr>
<tr>
<td>DOWSIL™ 56 Additive</td>
<td>Arylalkyl-modified silicone; 100% active</td>
<td>Aids deaeration without destabilizing the curtain in solventborne curtain coatings; improves leveling and gloss; aids pigment orientation; good thermostability</td>
<td>Water-based acrylic, styrene acryl and VAE systems</td>
<td>Grind, let-down or post add</td>
<td>0.05-0.5 %</td>
<td>Aromatics such as xylene, toluene, mineral spirits and esters such as butyl acetate</td>
<td>None</td>
<td>None</td>
<td>1,125-1,645</td>
</tr>
<tr>
<td>DOWSIL™ 57 Additive</td>
<td>Silicone polymer copolymer</td>
<td>Improves leveling, slip, mar resistance and gloss in waterborne and solventborne coatings; provides substrate wetting</td>
<td>NOTE: Always check compatibility before usage</td>
<td>Grind, let-down or post add</td>
<td>0.1-1.0 %</td>
<td>Acetone, toluene, mineral spirits and isopropyl alcohol; dispersible in water</td>
<td>None</td>
<td>None</td>
<td>175-390</td>
</tr>
<tr>
<td>DOWSIL™ 401LS Additive</td>
<td>Silicone polymer copolymer</td>
<td>Resilience and leveling additive for solventborne and radiation curable systems; also lowers coefficient of friction to improve slip and hand feel; compatible with clear coats</td>
<td>Water-based acrylic, styrene acryl and VAE systems</td>
<td>Grind, let-down or post add</td>
<td>0.05-1.0 %</td>
<td>Alcohols, glycol ethers and aromatic solvents</td>
<td>None</td>
<td>None</td>
<td>100-250</td>
</tr>
<tr>
<td>DOWSIL™ 402LS Additive</td>
<td>Silicone polymer copolymer</td>
<td>Effective flow and leveling additive for waterborne and radiation curable systems; also lowers coefficient of friction, giving good slip; suitable in pigmented and clear glaze formulations; also provides anti-blocking and applied hiding</td>
<td>NOTE: Always check compatibility before usage</td>
<td>Let-down</td>
<td>0.1-1.0 %</td>
<td>Alcohols, glycol ethers and aromatic solvents</td>
<td>Carbinol</td>
<td>None</td>
<td>280-400</td>
</tr>
<tr>
<td>DOWSIL™ 8526 Additive</td>
<td>Carboxyl-functional silicone polymer; 100% active</td>
<td>Provides leveling and slip with good compatibility in solventborne, waterborne and UV-curable coatings, inks and overprint varnishes</td>
<td>Solvent-based acrylic, epoxy, polyurethane and urethane systems; waterborne acrylic, polymer, epoxy and urethane systems; UV systems</td>
<td>Grind, let-down or post add</td>
<td>0.2-1.0 %</td>
<td>Water, alcohols, toluene, xylene</td>
<td>Carbinol</td>
<td>None</td>
<td>1,552</td>
</tr>
</tbody>
</table>

$^{[a]}$ Limitations may apply. Please contact www.dow.com/contactus for more information.
Table 1: Features, typical use and properties of additives from Dow[^1] (Products are listed under their primary benefit)

<table>
<thead>
<tr>
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<tr>
<td>Wetting</td>
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</tr>
<tr>
<td>DOWSIL™ 67 Additive</td>
<td>Silicone polyether copolymer</td>
<td>Imparts spreading and wetting in waterborne and radiation-curable coatings on</td>
<td>Waterborne acrylate, alkyd, polyester, polyurethane</td>
<td>Let-down or post add</td>
<td>0.1-0.4%</td>
<td>Isopropl alcohol, acetone and toluene; dispersible in water</td>
<td>Carbinol</td>
<td>None</td>
<td>31-51</td>
<td>Swiss Ordinance RS 817.023.21</td>
</tr>
<tr>
<td></td>
<td></td>
<td>suitable substrates, e.g., low-energy substrates such as polyethylene, polypropylene, polyester; suitable in inks, decorative and industrial coatings for plastic, metal and wood</td>
<td></td>
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<td></td>
<td>Annex 10 Part A or B</td>
</tr>
<tr>
<td>DOWSIL™ 500W Additive</td>
<td>Silicone polyether copolymer</td>
<td>Imparts enhanced substrate wetting in waterborne and radiation-curable systems; suitable across a wide range of substrates, including wood and plastics</td>
<td>Waterborne acrylate and polyurethane; radiation-curable acrylate</td>
<td>Let-down</td>
<td>0.1-0.4%</td>
<td>Isopropl alcohol, acetone and toluene; dispersible in water</td>
<td>None</td>
<td>None</td>
<td>25.5-29.5</td>
<td>Swiss Ordinance RS 817.023.21</td>
</tr>
<tr>
<td>DOWSIL™ 501W Additive</td>
<td>Silicone polyether copolymer</td>
<td>Imparts enhanced substrate wetting in waterborne and radiation-curable systems; suitable across a wide range of substrates, including wood and plastics</td>
<td>Waterborne acrylate and polyurethane; radiation-curable acrylate</td>
<td>Let-down</td>
<td>0.1-0.4%</td>
<td>Isopropl alcohol, acetone and toluene; dispersible in water</td>
<td>None</td>
<td>None</td>
<td>10-30</td>
<td>Swiss Ordinance RS 817.023.21</td>
</tr>
<tr>
<td>DOWSIL™ 502W Additive</td>
<td>Silicone polyether copolymer</td>
<td>Imparts enhanced substrate wetting in waterborne and radiation-curable systems; suitable across a wide range of substrates, including wood and plastics</td>
<td>Waterborne acrylate and polyurethane; radiation-curable acrylate</td>
<td>Let-down</td>
<td>0.1-0.4%</td>
<td>Isopropl alcohol, acetone and toluene; dispersible in water</td>
<td>Carbinol</td>
<td>None</td>
<td>49-75</td>
<td>Swiss Ordinance RS 817.023.21</td>
</tr>
<tr>
<td>DOWSIL™ 503W Additive</td>
<td>Silicone glycol copolymer</td>
<td>Designed to provide wetting, prevent pinholing and improve film surface appearance in solventborne and waterborne inks, paints and coatings applications; reduced foam generation</td>
<td>Acrylic latexes, polyurethane dispersions</td>
<td>Let-down or post add</td>
<td>0.1-1%</td>
<td>Water and alcohols</td>
<td>None</td>
<td>None</td>
<td>1500-2000 cP</td>
<td>bfr 15-0002, bfr 36-0002</td>
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<tr>
<td>Texturing (matting and/or tactile effects)</td>
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<td></td>
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</tr>
<tr>
<td>DOWSIL™ 23M Additive</td>
<td>Powder consisting of transparent spherical silicone elastomer particles with epoxy functionality; average particle diameter of 1-3 microns</td>
<td>Imparts mar and abrasion resistance with a smooth, matte finish to waterborne and solventborne coatings</td>
<td>Waterborne and solventborne acrylic, polyurethane</td>
<td>Best added to a portion of the resin/solvent system under high shear conditions prior to blending into the final formulation</td>
<td>0.5-5.0%</td>
<td>Solvents such as glycols, glycol ethers, alcohols, water with cosolvents such as acetone</td>
<td>Epoxy</td>
<td>None</td>
<td>NA</td>
<td>Swiss Ordinance RS 817.023.21</td>
</tr>
<tr>
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<td></td>
<td>Annex 10 Part A or B</td>
</tr>
<tr>
<td>DOWSIL™ 33 Additive</td>
<td>Waterborne suspension of spherical silicone elastomer particles with epoxy functionality; median particle diameter of 3-4 microns; 46% active</td>
<td>Imparts a silky, smooth, matte finish to waterborne coatings</td>
<td>Waterborne acrylate, polyurethane</td>
<td>Post add</td>
<td>2-10%</td>
<td>Water</td>
<td>Epoxy</td>
<td></td>
<td>&lt;150</td>
<td></td>
</tr>
<tr>
<td>DOWSIL™ 61 Paint Additive</td>
<td>10% silicone in solvent</td>
<td>Imparts a hammertone finish to metal surfaces</td>
<td>Primarily solventborne; some waterborne</td>
<td>Final thinning stage or prior to let-down</td>
<td>0.05-0.5%</td>
<td>Aromatic solvents such as xylene or toluene, mineral spirits, or ketones</td>
<td>None</td>
<td>Ethylbenzene, xylene</td>
<td>120</td>
<td></td>
</tr>
</tbody>
</table>

[^1]: These values are not intended for use in preparing specifications.
[^2]: The typical concentrations are usage levels where the materials have performed successfully. Usage levels can vary depending on application and performance requirements. Please evaluate for optimum performance in each specific application.
[^3]: Review the Safety Data Sheet for each solvent prior to use. Safety Data Sheets can be obtained from your solvent supplier.
[^4]: Compliant at effective date of publication of this selection guide. Visit dow.com/customersupport to obtain food contact regulatory information, including FDA, Swiss Ordinance and German BfR clearance. FDA Title 21 CFR - 175 (175.105, 175.300, 175.320) Indirect food additives: adhesives and components of coatings; 176 (176.130, 176.170, 176.180, 176.200, 176.210) Indirect food additives: paper and paperboard components; 177 (177.1390, 177.2600, 177.1520(b)) Indirect food additives: polymers.
[^5]: NA = Not Applicable
Additive selection tree for coatings applications

Start

Solvent less UV-cure/EB-cure system

FDA compliant

- DOWSIL™ 27 Additive
- DOWSIL™ 57 Additive
- DOWSIL™ 62 Additive
- DOWSIL™ 71 Additive
- DOWSIL™ 74 Additive
- DOWSIL™ 163 Additive
- DOWSIL™ Z-6121 Silane
- XIAMETER™ OFS-6011 Silane
- XIAMETER™ OFS-6020 Silane
- XIAMETER™ OFS-6030 Silane
- XIAMETER™ OFS-6032 Silane
- XIAMETER™ OFS-6040 Silane

Solvent Systems

Leveling

- DOWSIL™ 3 Additive
- DOWSIL™ 11 Additive
- DOWSIL™ 14 Additive
- DOWSIL™ 29 Additive
- DOWSIL™ 56 Additive
- DOWSIL™ 57 Additive
- DOWSIL™ 401LS Additive
- DOWSIL™ 8526 Additive
- DOWSIL™ 505W Additive

- DOWSIL™ 11 Additive
- DOWSIL™ 14 Additive
- DOWSIL™ 29 Additive
- DOWSIL™ 54 Additive
- DOWSIL™ 55 Additive
- DOWSIL™ 57 Additive
- DOWSIL™ 205SSL Additive

Mar resistance/slip

- DOWSIL™ 7 Additive
- DOWSIL™ 100F Additive
- DOWSIL™ 102F Additive
- DOWSIL™ 163 Additive
- DOWSIL™ 8621 Additive

Foam control

- DOWSIL™ 7 Additive
- DOWSIL™ 100F Additive
- DOWSIL™ 102F Additive
- DOWSIL™ 163 Additive
- DOWSIL™ 8621 Additive

Hammertone

- DOWSIL™ 61 Paint Additive

Pigment treatment

- DOWSIL™ 3 Additive
- DOWSIL™ 700P Additive
- XIAMETER™ OFS-6020 Silane
- XIAMETER™ OFS-6030 Silane
- XIAMETER™ OFS-6040 Silane

Gloss

- DOWSIL™ 57 Additive

Texturing

- DOWSIL™ 23 N Additive

Wetting

- DOWSIL™ 29 Additive
- DOWSIL™ 57 Additive
- DOWSIL™ 503W Additive

Water resistance

- DOWSIL™ 88 Additive

Release

- DOWSIL™ 1-9770 Release Additive
- DOWSIL™ 8714 Paint Additive

Waterborne system

Leveling

- DOWSIL™ 14 Additive
- DOWSIL™ 29 Additive
- DOWSIL™ 57 Additive
- DOWSIL™ 401LS Additive
- DOWSIL™ 402LS Additive
- DOWSIL™ 8526 Additive

Mar resistance/slip

- DOWSIL™ 14 Additive
- DOWSIL™ 18 Additive
- DOWSIL™ 27 Additive
- DOWSIL™ 51 Additive
- DOWSIL™ 52 Additive
- DOWSIL™ 57 Additive
- DOWSIL™ 205SSL Additive
- DOWSIL™ 210S Additive

Foam control

- DOWSIL™ 108F Additive
- DOWSIL™ 62 Additive
- DOWSIL™ 68 Additive
- DOWSIL™ 71 Additive
- DOWSIL™ 74 Additive
- DOWSIL™ 8590 Additive
- DOWSIL™ 8603 Additive
- DOWSIL™ 8628 Additive

Pigment treatment

- XIAMETER™ OFS-6011 Silane
- XIAMETER™ OFS-6020 Silane
- XIAMETER™ OFS-6040 Silane

Texturing

- DOWSIL™ 23 N Additive
- DOWSIL™ 33 Additive
- DOWSIL™ 67 Additive
- DOWSIL™ 500W Additive
- DOWSIL™ 501W Additive
- DOWSIL™ 502W Additive
- DOWSIL™ 88 Additive
- DOWSIL™ 87 Additive
- DOWSIL™ 88 Additive
- DOWSIL™ 901H Additive
- DOWSIL™ 902H Additive
- DOWSIL™ 903H Additive
- DOWSIL™ 906H Additive

Wetting

- DOWSIL™ 64 Additive
- DOWSIL™ 68 Additive
- DOWSIL™ 70 Additive
- DOWSIL™ 85 Additive
- DOWSIL™ 86 Additive
- DOWSIL™ 87 Additive
- DOWSIL™ 88 Additive
- DOWSIL™ 901H Additive
- DOWSIL™ 902H Additive
- DOWSIL™ 903H Additive
- DOWSIL™ 906H Additive

Water resistance

- DOWSIL™ 84 Additive
- DOWSIL™ 87 Additive
- DOWSIL™ 88 Additive
- DOWSIL™ 90 Additive
- DOWSIL™ 901H Additive
- DOWSIL™ 902H Additive
- DOWSIL™ 903H Additive
- DOWSIL™ 906H Additive

1 50% active in ethylene glycol isopropyl ether. Bold = Top product choices.
Foam control additive selection tree for coatings applications

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**Industrial antifoam selection**

<table>
<thead>
<tr>
<th></th>
<th>DOWSIL™ 71 Additive</th>
<th>DOWSIL™ 68 Additive</th>
<th>DOWSIL™ 8590 Additive</th>
<th>DOWSIL™ 8603 Additive</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Recommended use level</strong></td>
<td>0.1-0.5%</td>
<td>0.1-0.4%</td>
<td>0.05-0.2%</td>
<td>0.05-0.2%</td>
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<tr>
<td><strong>Grind</strong></td>
<td>•</td>
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<td><strong>Letdown</strong></td>
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<tr>
<td><strong>Pigmented coatings</strong></td>
<td></td>
<td></td>
<td>Best performance</td>
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<tr>
<td><strong>Clear coatings</strong></td>
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<td>Best performance</td>
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- **Good** • **Better** • • • **Best**
- ¹50% active in ethylene glycol isopropyl ether.
- ²1% active in diisobutyl ketone.
- ³Pigment volume concentration.
Mar-resistant/slip additive selection tree for coatings applications

To improve wetting, combine with
- DOWSIL™ 57 Additive

Best mar
- Resistance and slip
- DOWSIL™ 18 Additive

Low foam
- DOWSIL™ 54 Additive

Solvantborne
- DOWSIL™ 11 Additive
- DOWSIL™ 14 Additive
- DOWSIL™ 16 Additive
- DOWSIL™ 29 Additive
- DOWSIL™ 54 Additive
- DOWSIL™ 55 Additive
- DOWSIL™ 57 Additive
- DOWSIL™ 205SL Additive
- DOWSIL™ 401LS Additive

Hand feel
- DOWSIL™ 52 Additive

FDA compliant
- DOWSIL™ 27 Additive
- DOWSIL™ 57 Additive

Recoatable
- DOWSIL™ 11 Additive
- DOWSIL™ 57 Additive
- DOWSIL™ 401LS Additive

Best leveling and wetting
- DOWSIL™ 57 Additive
- DOWSIL™ 402LS Additive

Solventless uv-cure/ Eb-cure system
- DOWSIL™ 18 Additive
- DOWSIL™ 29 Additive
- DOWSIL™ 57 Additive
- DOWSIL™ 205SL Additive
- DOWSIL™ 402LS Additive

Anti-blocking
- DOWSIL™ 18 Additive
- DOWSIL™ 52 Additive

Best wetting
- DOWSIL™ 57 Additive

Defoaming
- DOWSIL™ 265SL Additive

Hand feel
- DOWSIL™ 52 Additive

Waterborne
- DOWSIL™ 14 Additive
- DOWSIL™ 27 Additive
- DOWSIL™ 29 Additive
- DOWSIL™ 51 Additive
- DOWSIL™ 52 Additive
- DOWSIL™ 55 Additive
- DOWSIL™ 57 Additive
- DOWSIL™ 205SL Additive
- DOWSIL™ 401LS Additive
- DOWSIL™ 402LS Additive

Multipurpose; may also improve Wetting and leveling
- DOWSIL™ 14 Additive
- DOWSIL™ 27 Additive
- DOWSIL™ 57 Additive
- DOWSIL™ 205SL Additive
- DOWSIL™ 401LS Additive
- DOWSIL™ 402LS Additive

Anti-blocking
- DOWSIL™ 57 Additive

Best mar
- Resistance and slip
- DOWSIL™ 18 Additive
- DOWSIL™ 27 Additive
- DOWSIL™ 57 Additive
- DOWSIL™ 8526 Additive

Best leveling
- And wetting
- DOWSIL™ 57 Additive

Easy to incorporate
- DOWSIL™ 55 Additive
- DOWSIL™ 210S Additive

To improve wetting, combine with
- DOWSIL™ 67 Additive
- DOWSIL™ 500W Additive
- DOWSIL™ 501W Additive
- DOWSIL™ 600W Additive
- DOWSIL™ 503W Additive

Start
Leveling and wetting additive selection tree for coatings and ink applications

Start

Recoatable
- DOWSIL™ 11 Additive

Best slip and wetting
- DOWSIL™ 57 Additive
- DOWSIL™ 401LS Additive

Best slip and wetting
- DOWSIL™ 57 Additive
- DOWSIL™ 401LS Additive

FDA compliant
- DOWSIL™ 57 Additive

Multipurpose; Also gives mar Resistance and slip
- DOWSIL™ 11 Additive
- DOWSIL™ 14 Additive
- DOWSIL™ 29 Additive
- DOWSIL™ 55 Additive
- DOWSIL™ 57 Additive
- DOWSIL™ 401LS Additive
- DOWSIL™ 8526 Additive

Multipurpose; Also gives mar Resistance and slip
- DOWSIL™ 14 Additive
- DOWSIL™ 29 Additive
- DOWSIL™ 57 Additive
- DOWSIL™ 401LS Additive
- DOWSIL™ 8526 Additive

Solventborne
- DOWSIL™ 3 Additive
- DOWSIL™ 11 Additive
- DOWSIL™ 14 Additive
- DOWSIL™ 29 Additive
- DOWSIL™ 55 Additive
- DOWSIL™ 57 Additive
- DOWSIL™ 56 Additive
- DOWSIL™ 401LS Additive
- DOWSIL™ 401LS Additive
- DOWSIL™ 8526 Additive

Waterborne
- DOWSIL™ 14 Additive
- DOWSIL™ 29 Additive
- DOWSIL™ 57 Additive
- DOWSIL™ 401LS Additive
- DOWSIL™ 8526 Additive

Eliminates microfoam; Good thermal stability; Aids metallic pigment Orientation
- DOWSIL™ 56 Additive

Solventless uv-cure/eb-cure system
- DOWSIL™ 29 Additive
- DOWSIL™ 57 Additive
- DOWSIL™ 67 Additive
- DOWSIL™ 401LS Additive

Little or no impact on slip
- DOWSIL™ 29 Additive
- DOWSIL™ 500W Additive
- DOWSIL™ 501W Additive
- DOWSIL™ 502W Additive

Leveling with no slip
- DOWSIL™ 3 Additive

Little or no increase in slip
- DOWSIL™ 67 Additive
- DOWSIL™ 500W Additive
- DOWSIL™ 501W Additive
- DOWSIL™ 502W Additive
- DOWSIL™ 503W Additive
- DOWSIL™ 67 Additive
- DOWSIL™ 500W Additive
- DOWSIL™ 501W Additive
- DOWSIL™ 502W Additive

Superior wetting on Low-energy substrates
- DOWSIL™ 62 Additive

Best slip and wetting
- DOWSIL™ 57 Additive

DOWSIL™ 57 Additive
- DOWSIL™ 57 Additive
- DOWSIL™ 57 Additive
- DOWSIL™ 57 Additive
Table 2. Additive selection table
Use this chart to identify the additives that meet your performance requirements.

<table>
<thead>
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<th>Properties</th>
<th>Markets</th>
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1Availability may be limited by region
Table 2. Additive selection table (continued)

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<td>Leveling and wetting</td>
<td>Foam control</td>
<td>Pigment treatment</td>
<td>Water resistance</td>
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