

# Universal MS : The Design Properties

	Eco Ultra ink	Mild solvent (Plus) ink	Mild Solvent Ultra ink	Universal Mild Solvent (UMS)
<b>Liquid carrier</b>	Lower volatile less aggressive solvents	Higher volatile more aggressive solvents	Higher volatile, more aggressive solvents	Medium volatile, less aggressive solvents
<b>Resin</b>	Harder resin	Harder resin	Softer resin	Resin Mix
<b>Pigment</b>	Highly durable	Highly durable	Highly durable	Highly durable
<b>Additives</b>	Multiple additives	Additives, special surfactant to control dot gain in case of MS-Plus	Multiple additives	Mix of additives for: <ul style="list-style-type: none"> <li>• Anti-mottling</li> <li>• Stability</li> <li>• Physical properties of the ink layer</li> </ul>

# Universal MS : The Key Scores

	Eco Ultra ink	Mild Solvent (plus) ink	Mild Solvent Ultra ink	Universal Mild Solvent (UMS)
<b>Odour</b>	<b>8</b>	<b>4</b>	<b>4</b>	<b>9</b>
<b>Abrasion resistance</b>	<b>7</b>	<b>8/7</b>	<b>6</b>	<b>6</b>
<b>Application 'Scuff'</b>	<b>8</b>	<b>8</b>	<b>5</b>	<b>8</b>
<b>Chemical resistance to alcohol</b>	<b>6</b>	<b>8/8</b>	<b>7</b>	<b>7</b>
<b>(*) Cleaning with Alcohol</b>	<b>7 cycles</b>	<b>10/13 cycles</b>	<b>7 cycles</b>	<b>15 cycles</b>

(\*) Alcohol is often used to wipe away fingerprints after mounting is completed  
 A score less than 10 cycles is not OK.  
 It is often demonstrated by 3<sup>rd</sup> party ink manufacturers as a weakness of the original ECO ink

# Universal MS : The Key Scores & Key Properties

	Eco Ultra ink	Mild solvent (plus) ink	Mild solvent ultra ink	Universal Mild Solvent (UMS)
<b>Media compatibility</b>	<b>7</b> slower evaporating solvents/harder resin	<b>8</b> faster evaporating solvents & harder resin	<b>9</b> faster evaporating solvents & softer resin	<b>9</b> Medium evaporating Resin mix reduces "sticky" damage
<b>Maintenance &amp; Drying</b>	<b>Weekly:</b> Resin would require daily maintenance → Thanks to low evaporating solvent choice only weekly maintenance is required	<b>Daily:</b> Resin choice + faster evaporating solvent	<b>Weekly:</b> Faster evaporating solvent + softer resin	<b>Daily:</b> Medium evaporating solvent mix & new resin mix

# Universal MS : The Key Scores & Key Properties (2)

	Eco Ultra ink	Mild Solvent (Plus) ink	Mild Solvent Ultra ink	Universal Mild Solvent (UMS)
<b>Outdoor durability</b>	Up to 3 years	Up to 3 years	Up to 3 years	Up to 3 years
<b>Shelf life</b>	2 years	18 months	18 months	18 months