

# WHATEVER YOU MAKE, MAKE IT MORE...

# CAPABILITIES OVERVIEW

Enhance the functionality, appearance and value of your parts, components or products based on Qualicoat's four decades of experience meeting the demands of the real world.

QUALICOAT CAPABILITIES	METAL			PLASTIC		OTHER <sup>1</sup>
	ALUMINUM	STEEL	OTHER <sup>2</sup>	THERMO PLASTICS	THERMOSETTING POLYMERS	
<b>PRETREATMENT</b>						
Surface Preparation	<ul style="list-style-type: none"> <li>■ MIL-DTL-5541</li> <li>■ Yellow, Clear &amp; RoHS Chromate Conversion</li> <li>■ Alkaline cleaning</li> <li>■ 7-stage caustic etching</li> <li>■ Grit-blasting: Aluminum Oxide</li> </ul>	<ul style="list-style-type: none"> <li>■ TT-C-490 Iron &amp; Zinc Phosphate</li> <li>■ Alkaline &amp; acid cleaning</li> <li>■ 7-stage rust stripping</li> </ul>		<ul style="list-style-type: none"> <li>■ Isopropyl-alcohol cleaning</li> <li>■ Repairs &amp; modifications</li> <li>■ Gritblasting: Hand cabinet &amp; barrel tumble blast</li> </ul>		
Fill & Sand						
Intricate Masking	High-temperature & chemical-resistant tapes • High-temp silicone caps for threads • Die cuts & fixtures • In-house custom masking					
<b>COATINGS &amp; PROPERTIES</b>						
Powder Coating	<ul style="list-style-type: none"> <li>■ <b>Polyester, hybrids, epoxies, Nylon 11, TGIC &amp; Urethanes:</b> Improves durability, cosmetic appearance &amp; functionality</li> <li>■ <b>Waterborne:</b> Improves durability, cosmetic appearance &amp; functionality</li> <li>■ <b>Enamels:</b> Alkyds, Acrylics &amp; others: Improves durability, cosmetic appearance &amp; functionality</li> <li>■ <b>Epoxies:</b> Improves durability, cosmetic appearance &amp; functionality</li> <li>■ <b>Solvent base:</b> Improves durability, cosmetic appearance &amp; functionality</li> <li>■ <b>Primers:</b> Powder &amp; Liquid: Improves durability, cosmetic appearance &amp; functionality</li> </ul>					
Application Methods	Electrostatic spray for powder & liquid paint • HVLP hand-spray for liquid paint • Thicknesses from .0003- to 25-mils based on customer specs					
Specialty Coatings	<ul style="list-style-type: none"> <li>■ <b>Abrasion Resistance:</b> ETFE high-tensile strength film coatings</li> <li>■ <b>Absorptive</b></li> <li>■ <b>Adhesion</b></li> <li>■ <b>Anti-corrosive</b></li> <li>■ <b>Antimicrobial (hygienic)</b></li> <li>■ <b>Anti-reflective</b></li> <li>■ <b>Anti-static (static dissipative)</b></li> <li>■ <b>Conductive</b></li> <li>■ <b>ElectroMagnetic Interference (EMI) &amp; Radio Frequency Interference (RFI) Shielding:</b> Copper, nickel &amp; silver</li> </ul>	<ul style="list-style-type: none"> <li>■ <b>Electronic Circuitry Protection:</b> Conformal coatings including acrylics, silicones, polyurethanes, aqueous coatings, and fluoracrylics</li> <li>■ <b>Heat &amp; Chemical Resistance:</b> Fluoropolymers including PTF, FEP &amp; PFA based, &amp; ETFE. See brand list under Certifications and ask about others.</li> <li>■ <b>Impact resistant</b></li> <li>■ <b>Low-Friction Resistance:</b> Fluoropolymers such as PTF, FEP &amp; PFA based, &amp; ETFE including Dupont Teflon®, Acheson Colloids Emralon® &amp; MSO2 (MolyDiSulfide)</li> <li>■ <b>Non-Stick &amp; Scratch Resistance:</b> PFA-based, FEP, PVDF &amp; Dupont Silverstone®</li> <li>■ <b>UV-stabilization</b></li> </ul>				
Military & Defense	<ul style="list-style-type: none"> <li>■ <b>Primers:</b> Chromate alkyd; epoxy polyamide; wash; lead &amp; chromate-free epoxies; red oxide; zinc-rich epoxy; elastomeric polyurethane; and others</li> <li>■ <b>Coatings:</b> Epoxy polyamide; aliphatic polyurethanes; alkyd-based enamels including Lusterless, Semi Gloss &amp; Gloss; and others</li> </ul>					
<b>GRAPHIC APPLICATIONS</b>						
Silk Screen, Pad Printing & Letter Fill	<ul style="list-style-type: none"> <li>■ Powder coating, painting &amp; plating of parts, components and assemblies made of plastic, metal, and other materials</li> <li>■ Single &amp; epoxy dual component inks</li> <li>■ Custom color matching: Pantone, PMS &amp; Federal Standard 595</li> </ul>					
<b>CERTIFICATIONS</b>						
Industry Wide	<ul style="list-style-type: none"> <li>■ ISO 9001:2008 certification</li> </ul>					
Product Specific	<ul style="list-style-type: none"> <li>■ TIGER Drylac® Powder Coatings &amp; Superior Architectural Powder Coatings</li> <li>■ PPG Duranar® Coil Coatings</li> </ul>	<ul style="list-style-type: none"> <li>■ <b>American Architectural Manufacturer's Association (AAMA):</b> <ul style="list-style-type: none"> <li>- 2603-02: Sherwin-Williams Powdura®</li> <li>- 2604-05: Sherwin-Williams Powdura®</li> <li>- 2605-05: Sherwin-Williams Powdura®</li> <li>- 2605-05: Kynar 500 PC® Resin Based Powder Coatings</li> <li>- Akzo Nobel Powder Coatings</li> <li>- Rohm &amp; Haas Powder Coatings</li> </ul> </li> </ul>				
<p><b>NOTES:</b></p> <p><sup>1</sup> Includes (acceptable substrates to be provided by client)</p> <p><sup>2</sup> Includes (acceptable other metal substrates to be provided by client)</p>						