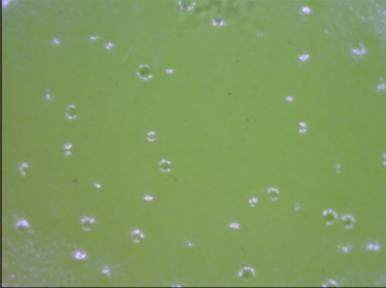
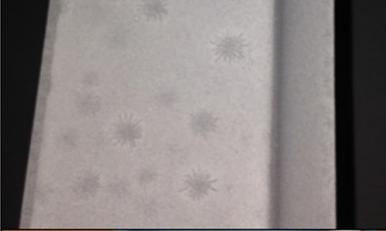


Example	Problem	Potential Cause	Solutions
Appearance Issues			
	Craters	Contaminates in compressed air	<i>Powder coating systems should have a dedicated regenerative air dryer. Compressed air should be at 38°F dew point or lower. No particulates greater than 0.3 microns or oil greater than 0.1 ppm should be present</i>
		Powder material incompatibility	<i>Make sure the powder coating system is cleaned properly</i>
		Air-born or foreign material incompatibility	<i>Inspect area for possible contaminants such as silicone</i>
		Insufficient surface prep	<i>Check pre-treat equipment and concentrations</i>
	Pin-Holing	Contaminates in compressed air	<i>Check system for compressed air contaminants</i>
		Excessive film thickness	<i>Decrease film build via voltage, powder delivery, or lessen time sprayed on part</i>
		Excessive oven temperature	<i>Reduce oven temperature and/or time in oven</i>
		Substrate porosity	<i>Check the substrate for surface porosity. If substrate is sand-blasted, check recommended blast profile</i>
	Poor flow or too much orange peel	Film thickness too low (poor flow)	<i>Increase film thickness via voltage or higher powder delivery</i>
		Film thickness too high (orange peel)	<i>Surface overcharged back-ionization</i>
		Powder too fine	<i>Adjust virgin/reclaim ratio</i>
		Oven temperature too high	<i>Adjust temperature/time</i>
		Coating not cured (poor flow)	<i>Adjust temperature/time</i>
Cured Film Properties			
	Poor adhesion	Coating under-cured	<i>Run DataPac oven profiler to confirm proper cure. The recommended time at metal temperature should be met</i>
		Insufficient surface prep	<i>Check pre-treat equipment and concentrations. Contact pretreat supplier</i>
		Excessive film thickness (creates brittleness)	<i>Decrease film build via voltage, powder delivery, or lessen time sprayed on part</i>
Application			
	Powder repelling from parts (back ionization)	Voltage too high	<i>Adjust voltage on controller, activate current limiting</i>
		Excessive film build	<i>Apply the powder to powder vendor's recommended film build</i>
		Poor ground	<i>Check the conveyor chain, load bars, and drop-down hooks for powder build-up. The resistance between the parts and ground must be 1 Meg-Ohm or less</i>
	Insufficient powder coverage (poor penetration in Faradays)	Voltage too low or too high	<i>Adjust voltage so coverage is even on edges and Faradays</i>
		Powder/air velocity too high	<i>Adjust air so the powder does not rebound from Faradays</i>
		Poor ground	<i>Make sure part ground is below 1 Meg-Ohm</i>
		Poor application technique or improper gun placement	<i>Make sure spray technique and patterns are directed properly</i>
		Powder too fine	<i>Adjust virgin/reclaim ratio</i>
Hoses and Pumps			
	Pumps and hoses clogged from impact fusion	Build-up from routine maintenance not being performed	<i>Clean and replace parts as needed. Start scheduled preventative maintenance</i>
		Moisture in air supply	<i>Make sure that air compressor and air drier are working properly</i>
		Air pressures too high	<i>Use lower air pressures on guns and powder transfer</i>
		Powder too fine	<i>Adjust virgin/reclaim ratio. Contact your local TCI service representative</i>
Fluidized Hoppers			
	Poor fluidization	Low air setting or improper air line size	<i>Adjust air to properly fluidize. Make sure air line supply is of adequate size</i>
		Moist or clumpy powder in hopper	<i>Feel bottom of hopper and make sure powder clumps are not present. If clumps are present contact powder supplier. Check air lines for moisture</i>
		Fluidizing plate bad	<i>Replace the fluidizing plate</i>