

Online Library Powder Coating Troubleshooting Guide

Powder Coating Troubleshooting Guide

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Reflected energy: energy that bounces back. Absorbed energy: energy absorbed by the coating (usually by the pigment). Transmitted energy: energy that passes through the film where the substrate either absorbs or reflects the energy. Different wave lengths have different curing properties to be considered. Short wave: 0.76 to 2.3 micron wave length with a source temperature of 2000° to 5000° F.

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Handling of Powder Coatings: Read the MSDS. Avoid excessive skin exposure. Wear proper respiratory equipment. Wear proper clothing and eyewear. Fire Risk: Maintain a safe concentration of

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powder in air- outside the explosion (flamability) limits. Eliminate any sources of ignition; Maintain a good ground on everything in the powder coating system.

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Powder Coating Troubleshooting Guide. Chapter One: Early Powder Coatings, Uses, and Types. Chapter Two: Manufacturing of Powder Coatings. Chapter Three: Powder Chemistries, Formulations, Comparisons, and Uses. Chapter Four: Comparisons to Liquid Coatings. Chapter Five: Measuring Up the Product. Chapter Six: Pretreatment.

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Powder Coating Troubleshooting Guide Chapter Seven: Powder Application Methods and Equipment. The method chosen to apply powder coatings is varied depending upon the specific part. Fortunately powder coating technology

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offers many choices in the application process.

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1.1.Thin Film (Substrates show through and coating layer has grainy flow)

Possible Causes. Solutions. High humidity powder. Control environment. Ensure all powders are kept sealed until required to use. Poor charging. Increase voltage. Clean or replace electrodes,cables,etc if needed.

Troubleshooting Guide - Powder Coating Troubleshooting

Check air supply - there needs to be sufficient volume to maintain air pressure. Check and clean hoses, powder pumps and guns, check air supply for moisture, and coating area for humidity. Adjust fluidisation air pressure. Check porous fluidising membrane for clogging or defects.

Powder Coating Problems -

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Troubleshooting Guide | Coating ...

Powder Application Problems (cont'd)
Trouble Possible Causes Solution. Poor penetration - powder will not coat Faraday cage area (holes, grooves, channels, inside corners & recesses) Powder delivery too low Turn up powder delivery air settings Poor ground Check ground; refer to 'Poor Ground' above Incorrect powder spray pattern a) Adjust powder spray pattern b) Try alternative nozzle selections Voltage too high Turn voltage setting down so that surfaces closer to gun do not repel powder from ...

Toubleshooting - powder-online.com

Another thing that can cause powder wastage, and improper application, is the humidity in the room. Too much or too little humidity can interfere with the spraying process. You want to try and maintain a constant temperature or relative humidity - both in the storage areas and application rooms.

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Powder Coating Application Issues, Problems & Fixes | IFS ...

- Scenario: Lumping in the powder coating in powder box Possible causes Corrections, testing, procedures Inappropriate storage (temperature too low/too high, in excess of shelf life) Strain before use, use fresh powder Box feeding Avoid continuous vibratory operation Transport too slow or too warm Strain powder before use, consult powder manufacturer

Troubleshooting Guide - TIGER Coatings

1b. Replace missing or broken electrode (grid). 1. 1c. Clean electrode (grid) insulated by powder build or impact fusion. 1. 2. Poor ground. 2. Check ground from conveyor rail (or hub bar when used) through hanger to part. All contact areas must be free of powder build, heavy grease and other insulation materials.

Powder Coatings Troubleshooting

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Trouble Shooting Guide This page is a simple guide that may help you trouble shoot common powder coating problems. You can scroll through the page or choose what your problem may be and it will take you to that section.

Powder Coating Trouble Shooting Guide - Arizona Powder Supply

Lumpy powder - could be caused by:
High Humidity - keep the product away from humid environments. Humid environments can cause the powder to stick together and become lumpy. High temperature - if the product reaches a temperature above 100 0 F or 38 0 C, the powder then begins to get lumpy.

Troubleshooting | IFS Coatings

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. Powder material in-compatibility. Make sure the powder

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coating system is cleaned properly.

TCI Troubleshooting Guide - TCI Powder Coatings

The cause of picture framing on a powder coated surface is when too much powder is applied to the edges of a substrate and you almost get an orange peel effect. At times, with certain powders, for example translucent powders, you can also get changes in texture. What causes these nasty defects though? Well, sometimes you have too much powder flow.

Appearance Issues: When Powder Coating Jobs Go Wrong | IFS ...

Powder Coating Troubleshooting Guide;

SOLUTION: PROBABLE REASON:

PROBLEM. 1. Sift the powder using Sieve No. 200 – 300 Microns. 2. Check Optimal Powder storage conditions in technical Data Sheet. Store powder at less than 25C : 1. ...

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Guide » Fam Powder Coating

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Fluidizing Bed Problem Potential Cause Solution
1. Dusting - powder blowing out of hopper
Air pressure too high Adjust air regulator pressure to fluid bed
Powder too fine Adjust virgin / reclaim mixture
Insufficient vent on hopper or plugged
Virgin powder ground too fine
2. No air - percolating

Fluidizing Bed Application

Appearance Cured Film Properties

Confirm all your equipment is properly grounded. Recommended spray distance is approximately 10-14 inches away from your product, distance may change depending on your equipment settings and part configuration. Improve the ground connections and/or lower the KV settings. Ensure coatings are suitable for gas ovens.

Troubleshooting Guide | Polychem Coatings

Appearance Issues: When Powder

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Coating Jobs Go Wrong. Posted by on 22 September 2017 . Rejects are the bane of any job shop's existence when applying powder coatings. Pulling apart out of the oven only to see whorls of orange peel powder, sections where the coating has sagged, or opacity issues bring a particular kind of dread alongside the question of what happened?

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