

Powder Coating Troubleshooting Guide

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~~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 contract areas must be free of powder build, heavy grease and other insulation materials. 3.Powder delivery (feed) is too high.~~

Powder Coatings Troubleshooting

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

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.

Powder Coating Troubleshooting Guide

Powder coating problems can be caused by issues with pre-treatment, powder supply, powder application, curing, or equipment. By looking at the issue you have, you can trace the problem back to a likely cause. In this guide we look at some of the most common powder coating defects and causes and how to solve these powder coating problems.

Troubleshooting Powder Coating Defects & Causes | Coating ...

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 - Troubleshooting Guide | Coating ...

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.

Powder Coating Troubleshooting Guide

Non-symmetrical powder cloud Worn gun parts Replace parts as required Impact fusion build-up Check gun parts as required Delivery air too low Check air supply; increase air for powder feed Hoses, powder pumps or guns blocked with powder Clean hoses, pumps and guns Reciprocator speed too fast Adjust gun cycle time

Toubleshooting - powder-online.com

However, heat it too much and the powder will melt and flow on contact – this can even go beyond sagging and 'icicle', a term applied when the coating will actually snap off like an icicle. As for film thickness, if you have built up too much powder, as it goes through the gel and flow stages, the sheer weight of it all follows gravities bidding and, literally, sags.

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

Nothing can be more frustrating then when you just finished a powder coating project and you find a fish eye in your finish or come to find little dots all over the surface of your part. Regardless of the cause, imperfections in your powder finish can be a headache and can also cost money. This guide will cover common powder coating finish problems and their typical causes so you can take ...

Powder Coating Finish Problems, Their Causes & Solutions

POWDER APPLICATION 2.1 Poor Fluidization • Scenario: Powder is supposed to flow like water in the fluid container (boil). Poor fluidization is recognizable in a slow and non-continuous transportation of the powder coating from the fluid container to the guns. No homogenous powder cloud is achieved.

TROUBLESHOOTING GUIDE - TIGER Coatings

Complete Guide to Powder Coatings Issue 1 – November 1999 5 Akzo Nobel Group produces both thermoplastic and thermosetting powder coatings, the majority of demand in the market being for thermosetting products. Thermoplastic coatings do not chemically react upon temperature increase, but they melt and flow out onto the substrate.

Guide to Powder - Complete - Powder Coating London

Powder Coating Troubleshooting Guide Chapter Twelve: Safety Issues With Powder Coatings This manual is a guide to the technology of electrostatic coating operations. It is important that the equipment operators and supervisory personnel understand the requirements for safe operation.

Powder Coating Troubleshooting Guide

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. Unfavorable storage conditions (high heat / Humidity area) 1. Hardening of Powder / Lumps in Powder.

Powder Coating Troubleshooting Guide » Fam Powder Coating

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 coating system is cleaned properly.

TCI Troubleshooting Guide - TCI Powder Coatings

Powder Coating Troubleshooting Guide Chapter Twelve: Safety Issues With Powder Coatings This manual is a guide to the technology of electrostatic coating operations. It is important that the equipment operators and supervisory personnel understand the requirements for safe operation.

Powder Coating Troubleshooting Guide

• 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

Troubleshooting Guide Having problems on your line? Check out the common issues and ways to solve them below. If your problem isn't there, give us a call on 940.612.0401 or email at Polychem@ifsc coatings.com and we'll do our best to assist you.

Troubleshooting Guide | Polychem Coatings

Description Designed to help identify and solve most common operational problems which may occur in a powder coating system, this guide is ready to be used in the finishing room by your company's technicians. Written in an easy-to-follow format, the guide addresses powder supply, booth and recovery equipment, oven and washer problems.