

POWDER COATING BEST PRACTICES CHECKLIST

Thanks for choosing to work with Forrest Technical Coatings as your powder coating supplier. We recommend you use this checklist for successful powder coating.

For a coating to adhere and perform to its full potential the substrate must be prepared and the applicator must use correct techniques.

For videos with more explanation, visit our website here: https://resources.forrestpaint.com/powder-coating-best-practices

For more training in powder coating application, we also recommend:

- Powder Coating Institute (https://www.powdercoating.org/): an industry non-profit offering basic and advanced training.
- Chemical Coaters Association International: The Finishing Industry's Education & Networking Resource with a powder coating video series.
 https://www.ccaiweb.com/page/finishing-tips

VIDEO LINK: RESOURCES AVAILABLE TO APPLICATORS (https://youtu.be/4j6qb0 OxX0)

Best Practices Check List

| 1. ARE | THE POWDER COATINGS PROPERLY STORED? | |
|-------------------------------|---|--|
| | Protect powder from high-temperature, humidity and contamination during storage. | |
| | Store powder in zip-tied plastic bags in the original boxes with tops closed. | |
| | Avoid high-temperature or high-humidity storage to prevent clumping. | |
| VIDEO LINK | : https://youtu.be/UmEkYaXmF-4 | |
| 2. IS THE POWDER BOOTH CLEAN? | | |
| | Clean booth surfaces and check for residual powder before and after powder coating. | |
| | Ensure dry and oil-free compressed air for cleaning. | |
| | Maintain ventilation during cleaning to remove excess powder. | |
| VIDEO LINK | : https://youtu.be/SxjJ_M4eJE0 | |
| 3. IS TH | E EQUIPMENT CLEAN AND READY FOR USE? | |
| | Regularly clean powder coating equipment, especially the gun. | |



| | We recommend cleaning at every color change. | |
|--|--|--|
| | Use compressed air for a quick cleaning and disassemble for thorough cleaning. | |
| | Follow the manufacturer's recommendations for proper cleaning procedures. | |
| VIDEO LINK | : https://youtu.be/kfNg5JSjAP0 | |
| 4. WORKER SAFETY: ARE YOU PROTECTING YOURSELF? | | |
| | Understand OSHA rules in your region. | |
| | Wear safety glasses, earplugs, and durable clothing. | |
| | Use grounding gloves to avoid shock. | |
| | Do not use compressed air to blow powder off clothes or skin. | |
| | Be aware of powder toxicity for enhanced safety. Refer to TDS and SDS. | |
| VIDEO LINK | https://youtu.be/G_N215NnYVM | |
| 5. IS THE PART CLEAN? | | |
| | Clean all parts thoroughly to remove manufacturing residues, seen and unseen. | |
| | Invisible contaminants like mill oils, machining oils, and rust preventatives are likely present. | |
| | Utilize wash, pre-treatment products, and manual sandblasting. Clean parts prior to sandblasting to prevent contamination. | |
| | Verify cleanliness of your part with solvent wipes. | |
| VIDEO LINK | https://youtu.be/r278vPIJgU4 | |
| 6. IS THE PART WELL GROUNDED? | | |
| | Properly ground parts using hooks for effective powder coating. | |
| | Ensure metal-to-metal connection for a good ground. | |
| | Use grounding gloves for personal grounding and protection against shock. | |
| | | |

VIDEO LINK: https://youtu.be/x0goPs04cQ4



| 7. IS THE GUN SET TO CURRENT CONDITIONS AND PART SHAPE? | |
|---|---|
| | Consider airflow, powder volume, and electrical settings simultaneously. |
| | Use a flat tip for coating Faraday areas. |
| | Consider a conical tip for wrapping around round or irregular parts. |
| VIDEO LINK | : https://youtu.be/3US7yw2i1j4 |
| 8. HOW | WILL THIS PART BE CURED? |
| | Understand and interpret cure time/temperature parameters. |
| | Start timing when substrate is up to temperature. |
| | Use temperature meters for accurate temperature measurement. |
| | Perform cure tests such as solvent rub and crosshatch adhesion to ensure proper curing. |
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No Video Link