

Company Name: _____

Maintenance Forms & Logs

Date: _____

Log ID: _____

Version: 1.0

Conversion Varnish Viscosity and Gun Setup Log

1.0 Form Objective & Asset Scope

This log is used to document daily viscosity measurements and spray gun configuration for conversion varnish finishing lines. Proper viscosity and gun setup are critical to achieving consistent film build, avoiding orange peel or runs, and preventing premature wear on spray equipment. This record supports quality control and preventive maintenance scheduling.

2.0 Administrative & Asset Details

Date: _____

Technician Name: _____

Spray Booth ID / Line Number: _____

Gun Make & Model: _____

Gun Serial Number: _____

Varnish Batch / Lot Number: _____

3.0 Inspection / Parameter Checklist

- ☐ Pass ☐ Fail - Verify varnish is at room temperature (18-24°C) before mixing.
- ☐ Pass ☐ Fail - Record catalyst ratio (parts varnish : parts catalyst) as per manufacturer spec.
- ☐ Pass ☐ Fail - Measure viscosity using Zahn cup #2 and record seconds.
- ☐ Pass ☐ Fail - Check fluid tip size matches job specification (e.g., 1.3 mm, 1.5 mm).
- ☐ Pass ☐ Fail - Set fluid pressure (psi) and record value.
- ☐ Pass ☐ Fail - Set atomization air pressure (psi) and record value.
- ☐ Pass ☐ Fail - Adjust fan pattern width and confirm even distribution.
- ☐ Pass ☐ Fail - Inspect gun needle and nozzle for wear or damage.
- ☐ Pass ☐ Fail - Check air cap for dried varnish buildup and clean if needed.
- ☐ Pass ☐ Fail - Verify fluid hose and fittings are free of leaks.
- ☐ Pass ☐ Fail - Perform a test spray on scrap and confirm finish quality.
- ☐ Pass ☐ Fail - Record pot life start time and expected end time.

4.0 Deficiencies & Work Order Generation

Issue Description (e.g., viscosity out of spec, gun spitting, uneven pattern):

Corrective Action Taken: _____

Parts Required (e.g., fluid tip, needle, air cap, seal kit): _____

Work Order Number (if follow-up required): _____

5.0 Sign-off & Return to Operations

Finishing Technician Signature: _____ Date: _____

Quality Inspector / Supervisor Review: _____ Date: _____

Maintenance Manager Approval (if repairs performed): _____ Date: _____

Regulatory Disclaimer: This maintenance log is a generic template. The end-user assumes all liability for validating all inspection parameters, PM frequencies, and tolerances against specific OEM machinery manuals before active shop floor deployment.