

Facility Cleanliness Guidelines

V01.20
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Overview

Following these precautions will better protect your health, will minimize cassette damage and reduce the risk of contaminating the resin. The guidelines on cleanliness are to be followed carefully by all team members.

This document includes the following sections:

1. Safety
2. Facility Setup: Contamination Prevention

1. Safety

Have a proper gowning space to prepare personal protective equipment (PPE) .

- Glasses, lab coats, gloves, long pants & closed toe shoes
- Long hair should be tied back & secured
- **Why?**
 - The liquid resins used in DLS™ and the solvents used to clean them are hazardous materials. You must learn how to protect yourself and others when working with these materials.
 - Liquid resins can contain the following chemical hazards:
 - Health Hazard
 - Harmful
 - Corrosive
 - Environment (non-mandatory)
 - Acute toxicity



2. Facility Setup: Contamination Prevention

There should be enough space between the Wet and Dry processes to avoid any cross-contamination of wet resin.

- **Why?**
 - Cross contamination is dangerous because resin is a hazardous material.
 - Cross contamination occurs when wet resin comes into contact with cured parts, equipment handles, light switches, door handles, etc. (e.g., picking up a cured part from the UV curing unit with a glove contaminated with resin leads to cross contamination.)
- **Prevention**
 - Change gloves frequently.
 - Always change gloves after contact with uncured resin.
 - When possible, station operators should work in one area of the printing process (dry or wet).
 - Inspect all hardware and work surfaces that come into contact with wet resin to make sure they have been properly cleaned after each use. Recommended inspection/maintenance intervals can be found via the [L1 Production Solution Maintenance Course](#). Clean at more frequent intervals if needed.

Wet Processes	Dry Processes
• Resin dispensing • Printing • Spinning	• Curing • Part removal • Film application



Change gloves frequently.

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Control dust and particulates in the printing area.

- Placing your Release Film Remover under a ductless fume hood is a preventative measure your facility can take to reduce particulates & dust.
- Particulates from horizontal surfaces (part removal areas, printer, etc.) can contaminate the cassette via the platform or operator personal protective equipment (PPE). Clean horizontal surfaces, platforms and PPE frequently.
- Use vacuums to clean the Finishing Process areas.
- Reduce the generation of dry resin on the platform by thoroughly cleaning the sides, edges and handles of the platform before curing.
- [Sticky mats](#) at your facility entrance will help reduce dust & debris



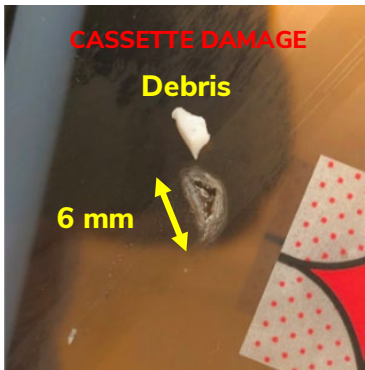
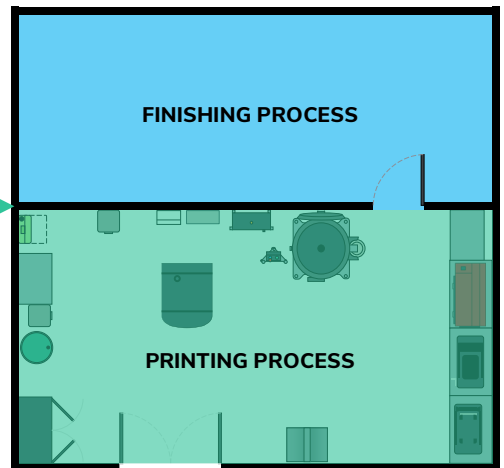
Ductless hood

Sticky mat

The Printing Process and Finishing Process must be separated by a physical barrier.

- **Why?**
 - The Aligner Finishing Process produces particulate matter, dust & debris.
 - These particulates can contaminate liquid resin and damage the cassette.
 - Contamination can also cause print defects.

Finishing Process is physically separated from Printing Process by a wall. This helps to contain particulates and prevent them from infiltrating equipment and resin in the Printing Process.



Debris and particulates can contaminate liquid resin and damage the cassette.

- For additional information on **Resin Safety & Facility Cleanliness**, please visit Carbon Academy to access learning plans, videos, quizzes & more.
- A few suggestions:
 - [L1 Production Solution Deep Cleaning](#)
 - [Safety](#) (especially Workplace Safety Standards>Monitoring)
 - [L1 Production Solution Maintenance](#)

