

Information Bulletin

Painting, Coating Types of Operations

Painting and coating operations consists of, but are not limited to:

- Spray painting
- Hand lay-up / painting
- Dipping
- Coating
- Fiberglass
- Injection molding
- Mixing / manufacturing
- Storage / handling
- Various processes that involve the use, application, storage, handling of toxic, hazardous, flammable, combustible materials, liquids, solids and gases

These types of operations/processes are considered F1 High-hazard industrial occupancy classification by the Manitoba Building Code and Manitoba Fire Code.

Design requirements

Documents that should be consulted include but are not limited to:

1. Manitoba Building Code
2. Winnipeg Building By-law
3. Manitoba Electrical Code
4. Manitoba Fire Code
5. NFPA 33 or 34
6. NFPA 13 (or type of fire suppression used)
7. NFPA 68 (if required, explosion venting)
8. Manitoba Labour & Immigration, Workplace Safety and Health

The engineer/architect should indicate that items number 1 to 8 have been reviewed, considered and discussed (with client), addressed and incorporated in the design, plans and specifications.

A building permit is required for the installation, construction, alteration or extension of any painting or coating operation or related process. To obtain a building permit, the applicant is required to submit the documents listed below. Electrical and mechanical trade permits must also be obtained by the licensed trade contractors.

The following requirements address spray painting operations but are relevant to all the above mentioned operations regardless of size, complexity, etc.

General

- Commercial alteration design summary (CADS)
- Owner statement (OS)

Building

- Detailed, dimensioned plans showing the location of the paint spray operation (see page 3 for example)
- Plans must include:
 - Building layout showing the entire floor area – a partial plan will not be accepted although one may be provided to supplement the complete plan.
 - Exit locations, door swing and egress routes
 - Code summary of the building indicating occupancy classification, area, fire sprinklers, etc. A building change of use may require the involvement of a design professional.

Mechanical

- Engineered mechanical plans including the paint spray ventilation system (intakes, outlet discharge, etc.)
- Engineered shop drawings of prefabricated spray booths, if applicable
- Engineered fire suppression system shop drawings that are sealed, signed and dated
- Mechanical design summary completed by the engineer(s) responsible for the HVAC & fire suppression installations (winnipeg.ca/mechanicalcentre)

Electrical

- Engineered report or plan indicating the locations and classifications of the electrically hazardous locations and compliance of the electrical installation with same
- Electrical design summary completed by the responsible engineer (winnipeg.ca/electricalcentre)

Fire Department

- Engineered letter or report detailing the Manitoba Fire Code and NFPA 33 or 34 requirements, as applicable

Professionals sealing the above required documents must be licensed to practice in the Province of Manitoba.

TYPICAL FLOOR PLAN

