

UNIFORM FIRE CODE REQUIREMENTS

APPLICATION OF FLAMMABLE FINISHES (Spray Finishing)



APPLICANT: Complete the lines noted with asterisk (*)

Reference Uniform Fire Code (OUFC) Volume 1, Article 45, 1998 Edition

As a minimum, the following requirements shall be addressed and verified prior to the use or continuing use of application of flammable or combustible finishes.

- NO SMOKING signs shall be conspicuously posted in Spray Finishing areas. OUFC Sec. 4501.4
- Welding Warning Signs conspicuously posted with the following warning shall be posted in the vicinity of spraying areas and paint storage rooms: OUFC Sec. 4501.5

NO WELDING

The use of welding or cutting equipment in or near this area is dangerous because of fire and explosion hazards. Welding and cutting shall be done only under the supervision of the person in charge.

- Spray booths shall be constructed of steel not less than 18 gage or other approved noncombustible materials. OUFC Sec. 4502.2.1
- Interior surfaces of spray booths shall be smooth and continuous without edges and designed to prevent pocketing of residue. OUFC Sec. 4502.2.3
- Floors of spray booths shall be of noncombustible material or shall be covered with a non-combustible, nonsparking material of such character to facilitate safe cleaning and removal of residue. OUFC Sec. 4502.2.4
- Baffle plates, if installed, shall be of a non-combustible material readily removable or accessible to facilitate cleaning and designed to provide an even flow of air through the booth and to prevent the deposit of overspray before it enters the exhaust duct. Baffle plates shall not be installed in the exhaust ducts. OUFC Sec. 4502.2.5
- Spray booths having a frontal area of more than 9 square feet and not equipped with doors shall have a metal deflector or fire curtain not less than 4 ½ inches deep installed at the upper outer edge of the booth over the booth opening. OUFC Sec. 4502.2.6
- Spray booths shall be separated from other operations by not less than 3 feet or by a wall or partition. OUFC Sec. 4502.2.7
- All portions of spray booths shall be readily available for cleaning, and a clear space of not less than 3 feet shall be kept free of storage or combustible materials. OUFC Sec. 4502.2.8
- When spray booths are illuminated, fixed lighting units which transmit light into the spray boot through heat-treated or hammered wire glass shall be used. OUFC Sec. 4502.2.9
- Clean filters shall be noncombustible or of an approved type. OUFC Sec. 4502.3.6
- Filters shall be disposed of in an approved manner. OUFC Sec. 4502.3.3
- Open flame and spark-producing equipment shall not be located in spraying areas and shall not be located within 20 feet of spraying areas unless separated by a partition. OUFC Sec. 4502.4.1
- Space-heating appliances, steam pipes and hot surfaces shall not be located in spraying areas where deposits of combustible residues could readily accumulate. OUFC Sec. 4502.4.2
- Electrical wiring and equipment in and around the spraying area shall be specifically approved for spray finishing locations. OUFC Sec. 4502.4.3
- Spraying areas shall be provided with mechanical ventilation adequate to prevent the dangerous accumulation of vapors. Spraying equipment shall be interlocked with the ventilation of the spraying area such that spraying operations cannot be conducted unless the ventilation system is in operation. OUFC Sec. 4502.5.1
- Ventilation systems shall be designed, installed and maintained such that the average air velocity shall not be less than 100 lineal feet per minute. OUFC Sec. 4502.5.2

- Electric motors driving exhaust fans shall not be placed inside booths or ducts. Fan rotating elements shall be nonferrous or nonsparking or casings shall consist of or be lined with such material. OUFCA Sec. 4502.5.4
- Exhaust ducts shall have a clearance from combustible construction or material of not less than 18 inches unless protection of exposed surfaces is provided in accordance with OUFCA Sec. 4502.5.6.2. OUFCA Sec. 4502.5.6.1
- Exhaust ducts shall not include individual bends exceeding 45 degrees measured from the center line of the duct. Bends, turns and elbows in ducts and pipes shall be constructed in a manner which does not reduce the cross-sectional area of the duct or pipe. OUFCA Sec. 4502.5.8
- Cleanout openings shall be provided at intervals which allow thorough cleaning of ducts. OUFCA Sec. 4502.5.9
- Heaters shall not be located in spray booths or other locations subject to accumulation of deposits or combustible residue. OUFCA Sec. 4502.7.6
- Spray booths and spraying rooms shall be protected by approved automatic fire-extinguishing systems. Such systems shall be extended to protect exhaust plenums, exhaust ducts and both sides of dry filters when such filters are used. OUFCA Sec. 4502.8.1
- Portable fire extinguishers shall be provided for spraying areas in accordance with the requirements for an extra (high) hazard occupancy as set forth in OUFCA Standard 10-1(Min. 4A:80B within 50 ft.) OUFCA Sec. 4502.8.2
- Spraying areas shall be kept free from the accumulation of deposits of combustible residues. OUFCA Sec. 4502.9.1
- Drying apparatus used in spraying rooms shall be of the portable infrared type. If other types of drying apparatus are used, the spray booth, including drying apparatus, shall be listed and approved for use with flammable vapors and combustible residues and shall be provided with explosion control. OUFCA Sec. 4502.10.2.2.2
- The spraying apparatus, drying apparatus and ventilation system for the spray booth or spraying room shall be equipped with suitable interlocks arranged to:
 1. Prevent operation of spraying apparatus while drying operation is in progress.
 2. Purge spray vapors from the spray booth or spraying room for a period of not less than three minutes before drying apparatus can be operated.
 3. Have the ventilating system maintain a safe atmosphere within the spray booth or spraying room during the drying process and automatically shut off drying apparatus in the event of a failure of the ventilating system, and
 4. Automatically shut off the drying apparatus if the air temperature within the booth exceeds 160 degrees when other than portable infrared drying apparatus is used. OUFCA Sec. 4502.10.2.2.5
- Drying or baking units using a heating system having open flames or which could produce sparks shall not be installed in spraying area. When such units are installed adjacent to a spraying area, they shall be equipped with an interlocked ventilating system arranged to:
 1. Thoroughly ventilate the drying space before the heating system can be started,
 2. Maintain a safe atmosphere at any source of ignition, and
 3. Automatically shut down the heating system in the event of a failure of the ventilating system.
 OUFCA Sec. 4502.10.3
- Necessary permits obtained from Corvallis Development Services (766-6929) Permit #: _____

I have read, understand, and will adhere to the conditions noted above.

- * Signature: _____
- * Printed Name: _____
- * Company/Contractor Name: _____
- * Job/Event Site: _____
- * Phone Number: _____