

CITY AND COUNTY OF DENVER		POLICY	DENVER FIRE DEPARTMENT
Subject:	FLOOR TREATMENT USING COMBUSTIBLE LIQUIDS		
Reference:	IFC, Denver Fire Code Amendments, NFPA		
Approved:			Manuel Almaguer Division Chief, Fire Prevention Division
Number:	IFC 2410 DFC Chpt. 57	Effective Date: February 1, 2017	Page 1 of 5

This policy is meant to provide basic information for the most common conditions and situations. In any given occupancy, many other Fire Code requirements may be enforced. The Fire Inspector will address these during a premise inspection. Questions can be addressed by contacting the Fire Prevention Division between 7:00 a.m. and 4:00 p.m. Monday through Friday at 720-913-3474. Walk-in hours are 7:00 a.m. to 9:30 a.m. ONLY, Monday - Friday at 745 W. Colfax Ave., 1st Floor.

I. SCOPE

This policy covers the permitting requirements as they pertain to: **FLOOR TREATMENT USING COMBUSTIBLE LIQUIDS** within the City and County of Denver.

II. DEFINITIONS

A Flammable liquid is a liquid having a closed cup flash point below 100-degree F. The category of flammable or combustible liquids does not include compressed gas or cryogenic fluids. Flammable liquids are further categorized into a group known as Class I liquids, subdivided as follows:

1. **Class I-A** liquids include those having a flash point below 73 degrees F and having a boiling point below 100 degrees F.
2. **Class I-B** liquids include those having a flash point below 73 degrees F and having a boiling point at or above 100 degrees F.
3. **Class I-C** liquids include those having a flash point at or above 73 degrees F and below 100 degrees F.

B. Combustible Liquid is a liquid having a flash point at or above 100 degrees F, subdivided as follows:

1. **Class II liquids** are those having closed cup flash point at or above 100 degrees F and below 140 degrees F.
2. **Class III-A liquids** are those having closed cup flash points at or above 140 degrees F and below 200 degrees F.
3. **Class III-B liquids** are those having a closed cup flash point at or above 200 degrees F.

C. Floor Treatment includes all operations including stripping, cleaning, and application of combustible finishes.

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III. ANNUAL PERMITS and FEES

The following permit must be obtained from the Denver Fire Prevention Division:

- A. **Floor Treatment using combustible liquids: \$50.00 per site one-time use. Annual for various sites with the City and County of Denver \$425.00.**
- B. The owner or responsible party must complete the **Floor Treatment using Combustible Liquids Policy** application form (attached), along with the required fee. Make check payable to the **Denver Manager of Finance**. Submit to the Denver Fire Department, Fire Prevention Division, Flammable Section. All required permits shall be current and posted on site.

Mail-in to: Denver Fire Department
Fire Prevention Division/Permits
745 W. Colfax Ave.
Denver, CO. 80204

Walk-in permits: 7:00 a.m. to 9:30 a.m. **ONLY** at 745 w. Colfax Ave., 1st floor.

IV. TO OBTAIN PERMITS

A permit shall be obtained from the Denver Fire Department, Fire Prevention Division, Flammables Section. To obtain a permit the following information must be provided:

- A. Business Name, address, phone number and fax number.
- B. Contact Name, phone number and fax number.
- C. Site address
- D. **Diagram of site location indicating where work will be performed.**
- E. Presence and/or absence of code complying/functional sprinkler system.
- F. **MSDS** (materials safety data sheets) of products used for floor treatment.
- G. Documentation verifying that you meet 2015 International Fire Code with Denver Amendments and 2014 National Fire Protection Association (NFPA) Standards.

SPECIFICS AND CONDITIONS:

- A. The Flammables Lieutenant shall be notified 24 hours prior to the commencement and closure of Floor Treatment Using Combustible Liquids operations. The permit applicant shall notify the building official before Floor Treatment Using Combustible Liquids takes place. (720-913-3518)

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- B. Approval signs shall be posted at the entrance, exit, of work areas. The signs shall state "Floor Treatment Using Combustible Liquids is taking place," include date and time of operation. Signs shall have a reflective surface and lettering shall be a minimum of 2 inches (51mm) in height.
- C. Floor treatment operations using combustible liquids may only be done in an unoccupied portion of a building, and only performed on nonporous surfaces.
- D. No portion of a school or day care center shall be occupied during floor-treatment operations with combustible liquids.
- E. Solvents used shall not exceed specifications for a class III Combustible Liquid. Class III liquids are those liquids with a flash point higher than 140 degrees. **Class 1-A, 1-B, 1-C, and Class II liquids are prohibited.**
- F. Maximum storage on site for a Class IIIA liquid is 330 gallons.
- G. A control area is a building or portion of a building within which the exempt amounts of hazardous materials are allowed to be stored, dispensed, used or handled. No more than four (4) control areas will be allowed in any one (1) building. The maximum amount of liquid in an open use per control area is twenty (20) gallons. Four control areas with twenty (20) gallons of open use per control area combines for a total of eighty (80) gallons that can be in open use for the building.
- H. The minimum distances between control areas will be one hundred (100) feet or one (1) hour fire separation.
- I. **A monitoring device able to detect ten percent (10%) of the Lower Explosive Limit (LEL) shall be used constantly throughout the workday to monitor each control area.**
- J. A 2A, 20BC fire extinguisher shall be located within each control area.
- K. Ventilation must meet the standards of the IFC 2003, Section 3405.3.6.2.6. Ventilation machines shall be located in areas adequately ventilated to prevent accumulation of vapors.
- L. Elimination of Ignition sources. In locations where, flammable vapors could be present, precautions shall be taken to prevent ignition by eliminating or controlling sources of ignition. Intrinsically safe equipment is highly recommended. This would include negative pressure fans, heap filter fans and floor machines. Solvent shall not be used

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in conjunction with spark producing floor-cutting wheels or any other spark producing equipment. Open flame devices (Propane Fueled devices), welding and cutting operations, and other sources of ignition shall not be located in areas where flammable or combustible liquids or materials are being used.

- M.** A means of contacting 9-1-1 for emergencies shall be maintained on the premises.
- N.** The use of propane in any amount requires a separate permit from the Fire Prevention Division, Flammables Section.

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FLOOR TREATMENT USING COMBUSTIBLE LIQUIDS PERMIT APPLICATION

THIS FORM SHALL BE FILLED-OUT AND SIGNED BY A REPRESENTATIVE OF THE COMPANY APPLYING FOR FLOOR TREATMENT USING COMBUSTIBLE LIQUIDS PERMIT. A PERMIT WILL NOT BE ISSUED IF THIS FORM IS NOT COMPLETE.

NAME OF BUSINESS: _____

BUSINESS ADDRESS: _____ CITY, STATE, ZIP CODE: _____

CONTACT'S NAME: _____

CONTACT'S PHONE NUMBER: _____ FAX: _____

SITE ADDRESS: _____

- PRESENCE AND/OR ABSENCE OF CODE COMPLYING/FUNCTIONAL SPRINKLER SYSTEM:
(CIRCLE ONE) YES NO
- I HAVE INCLUDED MSDS OF FLOOR TREATMENT PRODUCTS USED ON SITE:
(CIRCLE ONE) YES NO
- PRESENCE AND/OR ABSENCE OF CODE-COMPLYING/FUNCTIONAL FIRE ALARM SYSTEM OR
SIGNAL TRANSMITTER: (CIRCLE ONE) YES NO

I HAVE READ AND UNDERSTAND THE DENVER FIRE DEPARTMENTS POLICY ON FLOOR TREATMENT USING COMBUSTIBLE LIQUIDS. I ALSO UNDERSTAND THAT THE DENVER FIRE PREVENTION DIVISION WILL CONDUCT A SITE INSPECTION AND IF I DO NOT COMPLY WITH THE INTERNATIONAL FIRE CODE AND NFPA, MY PERMIT(S) MAY BE REVOKED WITHOUT A REFUND.

PRINT NAME: _____

SIGNATURE: _____ DATE: _____

END OF DOCUMENT