This policy is meant to provide basic information in any given occupancy. All other Fire Code requirements will be addressed and enforced by the Fire Inspector during inspections. Questions can be addressed to the Fire Prevention Division office between 7 a.m. to 3 p.m. Monday thru Friday, at (720) 913-3474 or at DENFPB@DENVERGOV.ORG. For inspection requests from the Flammables group, please call (720) 913-3440. Permits may be obtained via E-Permits – Accela Citizen Access available at Denver Fire Department - Fire Safety Operational Permits.

I. SCOPE

A. 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 Finishes. Coatings to articles or materials in which the material being applied is a flammable liquid, combustible liquid, combustible powder, fiberglass resin or flammable or combustible gel coating.

B. 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.

C. Flammable Material. A material capable of being readily ignited from common sources of heat or at a temperature of 600-degrees F (316 degrees C) or less.

D. 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.
E. Flammable Vapor Area. An area in which the concentration of flammable constitutes (vapor, gas, fume, mist, or dust) in air exceeds 25 percent of their lower flammable limit (LFL) because of the flammable finish processes operation. It shall include:
   1. Any area in the direct path of spray or any area containing dangerous quantities of air-suspended powder, combustible residue, dust, deposits, vapor or mists because of spraying operations.

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

G. Resin Application Area. An area where reinforced plastics are used to manufacture products by hand lay-up or spray-fabrication methods.

H. Roll Coating. The process of coating, spreading and impregnating fabrics, paper or other materials as they are passed directly through a tank or a trough containing flammable or combustible liquids, or over the surface of a roller revolving partially submerged in a flammable or combustible liquid.

III. ANNUAL PERMITS and FEES

A. The following permit must be obtained from the Denver Fire Prevention Division:
   1. Floor Treatment using combustible liquids
   2. Operational permits shall be posted on site. To obtain required operational permit(s), the Business owner or Company Representative must complete the Floor Treatment using combustible liquids application.

   1. Keep a record of this account and the associated password as it will be used for all associated permits for your business in the future.
   2. PERMIT COST - See Permit Fee Table at www.denvergov.org/Fire for current fees.

IV. TO OBTAIN PERMITS

A. A permit shall be obtained from the Denver Fire Department, Fire Prevention Division. To obtain a permit the following information must be provided:
   1. Business Name, address, phone number and fax number.
   2. Contact Name, phone number and fax number.
   3. Site address
   4. Diagram of site location indicating where work will be performed.
   5. Presence and/or absence of code complying/functional sprinkler system.
   6. MSDS (materials safety data sheets) of products used for floor treatment.
V. SITE INSPECTION

A. Upon approval of Floor Treatment using Combustible Liquids permit, a Denver Fire Department Fire Prevention Division Inspector may conduct a field inspection of the site. Compliance with all Fire Code requirements shall always be maintained. Permit shall always be kept on site. Permit is valid only for business/property owner, time frame, site indicated on the permit. The transfer of permits to other sites and or businesses is prohibited.

VI. A permit may be revoked when:

A. Any of the conditions or limitations set forth in the permit has been violated.
B. Compliance with written orders has not been achieved.
C. False statements or misrepresentations of information provided in the permit application are found.
D. The permit is issued in error or in violation of a City ordinance, or a Fire Code violation exists.

VII. SPECIFICS AND CONDITIONS:

A. The Denver Fire Department, Fire Prevention Division shall be notified 24 hours prior to the commencement of and completion of Floor Treatments Using Combustible Liquids. The permit applicant shall notify building officials before Floor Treatment Using Combustible Liquids takes place.
B. Approved signs shall be posted at the entrance and exit of work areas. The signs shall state “Floor Treatment and Finishing Operations Using Combustible Liquids is taking place,” and shall include the date and time of operations. 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. Business operation - Floor surfacing and finishing operations shall not be conducted while an establishment is open to the public.
E. No portion of a school or day care center shall be occupied during floor-treatment operations with combustible liquids.
F. Heating, ventilation and air-conditioning systems shall not be operated during resurfacing or refinishing operations or within 4 hours of the application of flammable or combustible liquids.
G. 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.
H. Maximum storage on site for a Class III A liquid is 330 gallons.
I. A control area is a building or portion of a building within which the exempt amounts of hazardous materials can 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.
J. The minimum distances between control areas will be one hundred (100) feet or one (1) hour fire separation.
K. 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.
L. A 3A, 40BC fire extinguisher shall be located within each control area.
M. Ventilation. To prevent the accumulation of flammable vapors, mechanical ventilation at a minimum rate of 1 cubic foot per minute per square foot [0.00508 m$^3$ / (s × m$^2$)] of area being finished shall be provided. Such exhaust shall be by approved temporary or portable means. Vapors shall be exhausted to the exterior of the building.
N. Ignition sources the power shall be shut down to all electrical sources of ignition within the flammable vapor area, unless those devices are classified for use in Class I, Division 1 hazardous locations.
O. A non-combustible, open-top container shall be provided for disposal of excess catalyzed resin. Excess catalyzed resin shall be drained into the container while still in the liquid state, enough water shall be provided in the container to maintain a minimum 2-inch water layer over the contained resin.
P. A means of contacting 9-1-1 for emergencies shall be maintained on the premises.
Q. In areas where chopper guns are used, exposed wall and floor surfaces shall be covered with paper, polyethylene film or other approved material to allow for removal of over-chop. Over-chop shall be allowed to cure for not less than 4-hours prior to removal.
R. The use of propane in any amount requires a separate permit from the Fire Prevention Division, Flammables Section.