

2.10. Incidental Operations Using Flammable and Combustible Liquids

2.10.1. Incidental operations using flammable and combustible liquids shall comply with the applicable general requirements of **Table 13.1. General Requirements** and **Table 13.8. Incidental Operations Using Flammable and Combustible Liquids**.

Table 13.8.: Incidental Operations Using Flammable and Combustible Liquids

ITEM	REQUIREMENTS
1. PAINTING OPERATIONS (PAINTING BOOTH)	<ul style="list-style-type: none"> i. Painting shall be permitted as incidental operation only in Industrial Occupancy. ii. The painting operation shall be confined to painting room or pre fabricated paint booth. iii. The painting rooms and painting booth shall be constructed of and separated from surrounding areas by construction assemblies that have 2 hours fire resistance rating. iv. Where the facility is protected by sprinkler system, the fire resistance rating shall be permitted to be reduced to 1 hour. v. A clear space of 1 m shall be maintained on all sides of paint booths and painting rooms. vi. Panels for light fixtures shall be heat treated glass, laminated glass or wired glass and shall be suitably sealed to confine vapors, sprays, dusts, residues and deposits to the spray area. vii. Panel for light fixtures shall be separated from fixture to limit the temperature of the panel from exceed 93°C viii. Portable or hand lamps shall not be used during painting operation. ix. All electrically conductive objects in the spray area shall be earthed or bonded to discharge static electricity. x. The quantity of liquid used for painting, that are stored in immediate vicinity to the painting room or booth shall be limited to quantity required for 1 shift (8 hours) operation. Such quantity shall not exceed maximum allowed quantity as stipulated in Table 13.2.6., Table 13.2.7. and Table 13.2.8. MAQ's. xi. Such liquid shall be minimum 3 m away from paint room or booth, vehicle moving path way, exits, corridors, exit accessways and ignition source. xii. Liquid quantity required for single mixing, transfer or dispensing operation shall be taken inside the painting room or booth. This shall not exceed 60 Gal. xiii. Ventilation System shall be provided in compliance with Table 13.1.6. xiv. Paint booth or paint room area classification shall be as per Table 13.8.a. xv. Hazardous classification Zone 1 Division 1 shall extend 1.5 meters around the communication openings. xvi. Hazardous classification Zone 1 Division 2 shall extend 6.0 meters around the communication opening.

Table 13.8.a.: Paint Room or Paint Area Classification

TYPE OF OPERATION	LIQUID CLASS	DURATION PER WEEK	FIRE PROTECTION	VENTILATION SYSTEM	HAZARD AREA CLASSIFICATION
1. BRUSH/SPRAY	I or II or III	Any	Mandatory	Mandatory	Class I Division I
2. BRUSH	II or III	Up to 10 Hours	Not Mandatory	Not Mandatory	Class I Division II
3. BRUSH	II or III	Over 10 Hours	Mandatory	Not Mandatory	Class I Division II
4. SPRAY	II or III	Up to 10 Hours	Not Mandatory	Mandatory	Class I Division I
5. SPRAY	II or III	Over 10 Hours	Mandatory	Mandatory	Class I Division I