

515.9 Sealing. Sealing requirements shall apply to horizontal as well as to vertical boundaries of the defined Class I locations. Buried raceways and cables under defined Class I locations shall be considered to be within a Class I, Division 1 or Zone 1 location.

515.10 Special Equipment — Motor Fuel Dispensers. In addition to the requirements of this article, dispensers for gasoline or other volatile flammable liquids or liquified flammable gases shall comply with the requirements for motor fuel dispensing facilities, as applicable, except as modified by this article.

Δ **515.16 Grounding and Bonding.** All metal raceways, the metal armor or metallic sheath on cables, and all non-current-carrying metal parts of fixed or portable electrical equipment, regardless of voltage, shall be grounded and bonded.

Grounding and bonding in Class I locations shall comply with 501.30 for Class I, Division 1 and 2 locations and 505.30 for Zone 0, 1, and 2 locations.

Informational Note: See NFPA 30, *Flammable and Combustible Liquids Code*, 6.5.4, for information on grounding for static protection.

ARTICLE 516

Spray Application, Dipping, Coating, and Printing Processes Using Flammable or Combustible Materials

Part I. General

Δ **516.1 Scope.** This article covers the regular or frequent application of flammable liquids, combustible liquids, and combustible powders by spray operations and the application of flammable liquids or combustible liquids at temperatures above their flashpoint by spraying, dipping, coating, printing, or other means.

Informational Note No. 1: See NFPA 33-2021, *Standard for Spray Application Using Flammable or Combustible Materials*, or NFPA 34-2021, *Standard for Dipping, Coating, and Printing Processes Using Flammable or Combustible Liquids*, for extracted text that is followed by a reference in brackets. Only editorial changes were made to the extracted text to make it consistent with this *Code*.

Informational Note No. 2: See NFPA 91, *Standard for Exhaust Systems for Air Conveying of Vapors, Gases, Mists, and Particulate Solids*, for information regarding ventilation.

Industry experience has shown that the largest fire losses and frequency of fires occur where the proper codes and standards have not been used or applied. NFPA 33, *Standard for Spray Application Using Flammable or Combustible Materials*, covers the spray application of flammable or combustible materials by means of compressed air atomization, airless or hydraulic

atomization, electrostatic application methods, or any other means in continuous or intermittent processes. NFPA 33 also covers the application of combustible powders applied by powder spray guns, electrostatic powder spray guns, and the fluidized bed application method or electrostatic fluidized bed application method. NFPA 33 contains requirements for the maintenance of safe conditions as well as personal safety.

NFPA 34, *Standard for Dipping, Coating, and Printing Processes Using Flammable or Combustible Liquids*, covers the fire and explosion hazards of dipping and coating processes that use flammable or combustible liquids or that use waterborne, water-based, and water-reducible materials that contain flammable or combustible liquids or that produce combustible deposits or residues.

Flammable or combustible liquids or powders and their vapors or mists and highly combustible residues or powders are the principal hazards of these spray application locations. Careful consideration of the location and installation of extinguishing equipment can reduce the possibility of fire spreading. NFPA 33 and NFPA 34 address these additional nonelectrical hazards.

N **516.2 Other Articles.** In addition to the requirements of this article, spray application, dipping, coating, and printing processes using flammable or combustible materials shall comply with Table 516.2, as applicable, except as modified by this article.

N **TABLE 516.2** Other Articles

Requirement	Division Classified Locations	Zone Classified Locations
Area classification	500.5, 500.6	505.5, 505.6, 505.7, 506.5, 506.6, 506.7
Equipment	500.7, 500.8, 501.5, 502.5, 502.6, Part III of 501, Part III of 502	505.8, 505.9, 505.20, 505.22, 506.8, 506.9
Wiring	Part II of 501, Part II of 502	505.15, 505.16, 505.17, 505.18, 505.19, 505.26, 505.30, 506.15, 506.17, 506.20, 506.30

516.3 Class I Locations. Where the term *Class I* is used with respect to Zone classifications within this article of the *Code*, it shall apply to Zone 0, Zone 1, and Zone 2 designations.

Informational Note: The term *Class I* was originally included as a prefix to Zone 0, Zone 1, and Zone 2 locations and references as an identifier for flammable gases, vapors, or liquids to differentiate from Class II and Class III locations. Zone 0, Zone 1, and Zone 2 only apply to flammable gases, vapors, or liquids so the *Class I* prefix is redundant and has been deleted, except for text that is extracted from other documents or to remain consistent throughout this article.

Part II. Open Containers

Δ **516.4 Area Classification.** Area classification for open containers, supply containers, waste containers, spray gun