

**TCEQ Coatings Sources
Current Best Available Control Technology (BACT) Guidelines**

Painting Operations

The information is maintained by the Combustion/Coatings Section and is subject to change. Last update 8/10.

Year	Source Type	Pollutant	Minimum Acceptable Control	Control Efficiency or Details
2010	Enclosed Painting	VOC and Exempt Solvent	Use of high solid content coatings, water based or low VOC coatings, Ultraviolet/Electron beam coatings and/or TCEQ Chapter 115 (30 TAC §115.421) compliant coatings.	
			Use of high transfer efficiency application equipment.	Airless, air assisted airless, electrostatic, high volume low-pressure (HVLP) spray equipment. Brushes, rollers, dipping, and flow coating.
			Collecting and venting VOC and exempt solvent to an add-on control device may be required if the combined VOC and exempt solvent emissions in total are greater than 60 tpy (site-wide) from manned operations and greater than 30 tpy (sitewide) for automated painting operations.	Efficiency of thermal control devices is 98% or greater or a VOC and exempt solvent exhaust concentration of less than 20 ppmvd.
			For all sources: Capture of application equipment cleanup solvents and limit solvent usage through a site-specific solvent management plan.	
			Good housekeeping for spills	
			Storage of coatings, solvents, and waste materials in closed containers	
			Meet the requirements of all applicable standards under 40 CFR 60	

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Year	Source Type	Pollutant	Minimum Acceptable Control	Control Efficiency or Details
2010 <i>(continued)</i>	Enclosed Painting <i>(continued)</i>	PM	For all Sources: Dry or water wash filters	Control efficiency of 99% or greater based on ASHRAE 52.1. MERV ratings based on ASHRAE 52.2 will be evaluated on a case-by-case basis
			Use of high transfer efficiency application equipment	Airless, air assisted airless, electrostatic, high volume low-pressure (HVLP) spray equipment. Brushes, rollers, dipping, and flow coating.
		HAPs	For all major and area sources of HAPs compliance with the applicable emissions standards in 40 CFR 63.	
	Outdoor Painting	VOC, Exempt Solvent and PM	Use of high solid content coatings, water based or low VOC coatings, and/or TCEQ Chapter 115 (30 TAC §115.421) compliant coatings.	
			Use of high transfer efficiency application equipment.	Airless, air assisted airless, electrostatic, high volume low-pressure (HVLP) spray equipment. Brushes, rollers, dipping, and flow coating.
			Use of shroud is highly recommended to meet state/federal PM standards and health effects review.	Shroud material shade factor should be 85% or greater
			Capture of application equipment cleanup solvents and limit solvent usage through a site-specific solvent management plan.	

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Year	Source Type	Pollutant	Minimum Acceptable Control	Control Efficiency or Details
2010 <i>(continued)</i>	Outdoor Painting <i>(continued)</i>	VOC, Exempt Solvent and PM <i>(continued)</i>	Good housekeeping for spills	
			Storage of coatings, solvents, and waste materials in closed containers.	
		HAPs	For all major and area sources of HAPs compliance with the applicable emissions standards in 40 CFR 63.	