

TCEQ Coatings Sources

Current Best Available Control Technology (BACT) Guidelines

Fiber Reinforced Plastic

This information is maintained by the Mechanical/Coatings Section and is subject to change. Last update 03/2018.

Year	Source Type	Pollutant	Minimum Acceptable Control	Control Efficiency or Details
2018	Cultured Marble	VOC and Exempt Solvent	Use of resins and gelcoats that meet the monomer limitations in 40 CFR Part 63, Subpart WWWW	
			Use proper ventilation design to minimize styrene odor.	100% capture of monomer emissions to minimize fugitive emissions.
			Use high transfer efficiency spray application equipment.	Airless, high-volume, low-pressure (HVLP) spray equipment, fluid impingement technology, non-atomized application equipment, brushes or rollers. Implementation of American Composite Manufacturers Association (ACMA) controlled spray techniques, including operator training, spray gun calibration and the use of overspray containment flanges on molds may be required to achieve acceptable impacts.
			Collecting and venting VOC and exempt solvent to an add-on control device may be required for operations with VOC and exempt solvent emissions greater than 60 tpy.	Efficiency of thermal control devices is 98% or greater.

Year	Source Type	Pollutant	Minimum Acceptable Control	Control Efficiency or Details
2018	Cultured Marble	VOC and Exempt Solvent	Submerged fill pipes required for tanks over 1000 gallon capacity for contents with a true vapor pressure at storage conditions ≥ 1.5 psia. Outdoor fixed roof storage tanks shall be white or aluminum-colored.	Submerged fill pipe must meet the requirements specified in 30 TAC §101.1(101). Although no emission credit will be given, vapor balanced loading may also be helpful to achieve acceptable off-property impacts.
			Good housekeeping and best management practices.	Acetone replacement compounds should have a vapor pressure less than 1.0 mmHg at 40°C. Aqueous cleaners should have a VOC content less than 5.0 percent by weight.
				See applicable 40 CFR Part 63 requirements regardless of whether the requirements are directly applicable.
		Particulate matter including PM ₁₀ and PM _{2.5}	Use dry filters in the grinding booths or rooms.	Control efficiency of 99% or greater.
			Opacity shall not exceed 5% and/or no visible emissions from each stack or vent.	

Year	Source Type	Pollutant	Minimum Acceptable Control	Control Efficiency or Details
2018	Fiber Reinforced Plastics (FRP)	VOC and Exempt Solvent	Use of resins and gelcoats that meet the monomer limitations in 40 CFR Part 63, Subparts WWWW or VVVV.	
			Use semi-enclosed/enclosed molding process.	
			Use high transfer efficiency spray application equipment.	Airless, high-volume, low-pressure (HVLP) spray equipment, fluid impingement technology, non-atomized application equipment, brushes or rollers. Implementation of American Composite Manufacturers Association (ACMA) controlled spray techniques, including operator training, spray gun calibration and the use of overspray containment flanges on molds may be required to achieve acceptable impacts.
			Use proper ventilation design to minimize styrene odor.	100% capture of monomer emissions to minimize fugitive emissions.
			Collecting and venting VOC and exempt solvent to an add-on control device may be required for operations with VOC and exempt solvent emissions greater than 60 tpy.	Efficiency of thermal control devices is 98% or greater.

Year	Source Type	Pollutant	Minimum Acceptable Control	Control Efficiency or Details
2018	Fiber Reinforced Plastics (FRP)	VOC and Exempt Solvent	Submerged fill pipes required for tanks over 1000 gallon capacity for contents with a true vapor pressure at storage conditions ≥ 1.5 psia. Outdoor fixed roof storage tanks shall be white or aluminum-colored.	Submerged fill pipe must meet the requirements specified in 30 TAC §101.1(101). Storage tank pressure vent valve vented into the spray booth stacks may be required to achieve acceptable off property concentrations. Additionally, although no emission credit will be given, vapor balanced loading may also be helpful to achieve acceptable off-property impacts.
			Good housekeeping and best management practices.	Acetone replacement compounds should have a vapor pressure less than 1.0 mmHg at 40°C. Aqueous cleaners should have a VOC content less than 5.0 percent by weight.
		Particulate matter including PM ₁₀ and PM _{2.5}	Use dry filters in the grinding booths or rooms.	Control efficiency of 99% or greater.
			Opacity shall not exceed 5% and/or no visible emissions from each stack or vent.	