

Global Health Practice Example

Paintings and coatings

<p>PURPOSE</p>	<p>To consistently identify, assess and control worker exposure to potential health risks associated with the application and removal of paints and coatings.</p>
<p>SCOPE</p>	<p>This practice applies to sites where paint and coating applications, and removal activities are performed.</p>
<p>AWARENESS REQUIREMENTS</p>	<p>Workers are informed of the presence, potential hazards, control measures and proper handling practices associated with paint and coating application/removal and the precautions needed to prevent exposure.</p>
<p>CONTROL REQUIREMENTS</p>	<ol style="list-style-type: none"> 1. Health exposure risk assessment of painting and coating activities are conducted which evaluate potential health risk and ensure appropriate controls and surveillance measures, as required, are in place. 2. Workers wear respiratory and personal protective equipment, selected consistent with Table 1, during paint and coating application and removal activities, unless otherwise determined by local Risk Assessments. For confined or enclosed spaces, the RPE requirements in Table 1 apply to all workers in the space (regardless of the activity they are conducting) unless the local risk assessment indicates a different level of RPE is appropriate. 3. Respiratory protective equipment is used consistent with the Respiratory Protection Global Health Practice 4. Gloves and protective clothing (e.g., aprons, coveralls) are selected and used to limit / prevent skin and clothing contact with paint or coatings. Where potential exists for skin contamination, skin protection measures and hygiene controls (washing after skin contact and protective clothing where contact is likely) are specified and implemented. 5. Access to outdoor and enclosed or confined space epoxy or polyurethane spray painting is restricted to personnel directly involved and with required personal and respiratory protective equipment. 6. Where solvent based paints and coatings are applied in enclosed or confined areas, mechanical ventilation and continuous LEL monitoring is used to minimize potential worker exposures and fire risk. 7. Paint and coating mixing prior to application, and equipment clean-up is conducted in well-ventilated areas. Mixing is conducted outside of and at least 20 feet/6 meters from confined space entry points.

Table 1 - Respirator and personal protective equipment requirements for paint and coating application and removal

PAINT/COATING TYPE	ACTIVITY/CONDITIONS	RESPIRATORY PROTECTIVE EQUIPMENT REQUIRED	PERSONAL PROTECTIVE EQUIPMENT REQUIRED
Solvent based paints and coatings including: Epoxy Resins Polyurethanes Alkyd enamels/paints Acrylic Enamels	(1) Spray Application Outdoors in well ventilated areas	Half face air purifying with organic vapor cartridge and mist pre-filter	Butyl rubber or nitrile gloves
	(2) Spray Application in enclosed, confined or poorly ventilated areas	Full face supplied air	Butyl rubber or nitrile gloves, disposable coveralls
	(3) Brush/Roller Application Outdoors in well ventilated areas	None	Goggles or face shield for overhead work; butyl rubber or nitrile gloves
	(4) Brush/Roller Application in enclosed, confined or poorly ventilated areas	Half face air purifying with organic vapor cartridge	Butyl rubber or nitrile gloves
	(5) Paint and coating mixing and clean-up - only conduct in well ventilated areas (e.g., outdoors)	None	Face shield or goggles; Butyl rubber or nitrile gloves
Latex Enamel and Paint	All	None	None
Chemical Paint Strippers	(1) Stripper application to remove paint and coatings outdoors in well ventilated areas	Half face air purifying with organic vapor cartridge	Chemical resistant gloves (Glove material should be selected bases on type of stripper selected)
	(2) Stripper application to remove paint and coatings in enclosed, confined or poorly ventilated areas	Full face supplied air	Chemical resistant gloves and coveralls (Glove material should be selected bases on type of stripper selected)