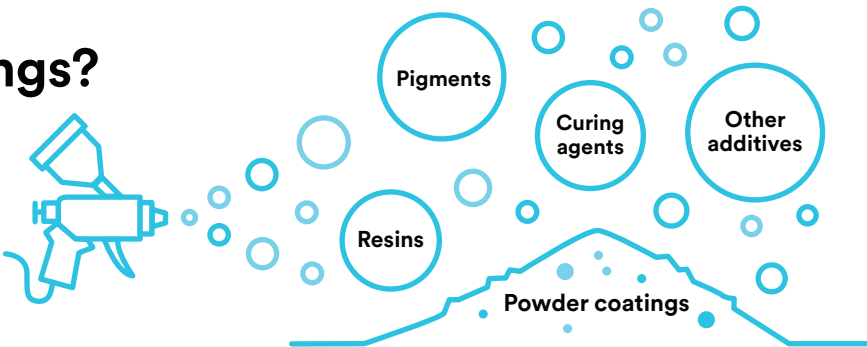


Know your hazard: Powder Coatings

What are powder coatings?

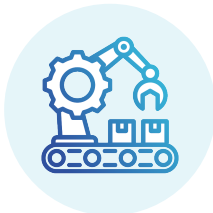
Powder coats are mixtures of pigments, resins, curing agents and other additives.

The powders are sprayed with a gun, which imparts a charge upon the particles.



What are the sources of exposure to powder coating?

Workers can be exposed to toxins in powder coatings during:



Manufacturing of powder coatings



Manual spray applications



Handling and dispensing powders



Cleaning paint booths



Maintaining spray equipment

Harmful effects of powder coating

Powder coating powders generally have low solvent content compared to liquid-based paints and are often classified as having **low toxicity**. However, some powder coats can have pigments and hardeners that can pose health risks such as:

Irritation in:



Eyes



Skin



Nose

Respiratory issues:



Wheezing



Chest tightness



Breathlessness



Coughing

Increased sensitisation in:



Respiratory system



Skin

Chronic exposure can cause:



Occupational asthma



Dermatitis

How can one protect against it?

In order to reduce exposure and risks to workers, you can:



Get Respiratory Protective Equipment (RPE).








Conduct risk assessment to compare exposure levels with limits.



Implement engineering controls such as local exhaust ventilation (LEV).

What RPE does 3M recommend for protection against powder coating?

3M has a range of RPE that can help reduce your exposure to dusts, mists, metal fume, as well as gases and vapours commonly encountered in metal production and fabrication.

Type of Respirators	Recommended 3M Respiratory Protective Equipment*		
 Powered Air Respirator	 3M™ Versaflo™ Powered Air Purifying Respirator Starter Kit, TR-619E	+	 3M™ Versaflo™ M-407 Helmet
 Supplied Air Respirator	 3M™ Versaflo™ Vortex Cooling Assembly V-100	+	 3M™ Versaflo™ M-407 Helmet
 Reusable Respirator	 3M™ Secure Click™ Full Facepiece Reusable Respirator FF-800 or Half Facepiece HF-800 Series	+	 3M™ Secure Click™ Particulate Filter P100 with Nuisance Level Organic Vapor Relief D3097
 Disposable Respirator	 3M™ Aura™ Disposable Respirator 9332A+, FFP3/P3		 3M™ Particulate Respirator 8511, N95

*This is only recommendation for minimum PPE required. Each work application must be evaluated by a competent person as required by local laws and regulations for the hazard and risk before selection of right PPE. Workplace rules and regulations must take precedence, if more stringent.
^9322A+ and 8511 for protection against particulates only.
#8247 and 8577 for protection against particulates and nuisance odours.



REQUEST A DEMO
To know which respiratory protection is best suited for your work environment, scan the QR code.



READ MORE
For more information on the hazard and product disclaimers, scan the QR code for the technical bulletin.



EXPLORE MORE
To discover variety of respiratory protection equipment from 3M, for your workers, scan the QR code.

