



DUST MANAGEMENT AND CONCRETE FLOOR GRINDING

Concrete grinding creates a lot of dust which could be hazardous. OSHA has released its final ruling on crystalline silica exposure (effective Sept 23, 2017), and contractors are required to take measures to control silica dust exposure.

FROM OSHA TABLE 1:

Equipment / Task	Engineering and Work Practice Control Methods	Required Respiratory Protection and Minimum Assigned Protection Factor (APF)	
		≤ 4 hours /shift	> 4 hours /shift
(xiii) Walk-behind milling machines and floor grinders	Use machine equipped with integrated water delivery system that continuously feeds water to the cutting surface. Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.	None	None
	OR Use machine equipped with dust collection system recommended by the manufacturer. Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions. Dust collector must provide the air flow recommended by the manufacturer, or greater, and have a filter with 99% or greater efficiency and a filter-cleaning mechanism. When used indoors or in an enclosed area, use a HEPA-filtered vacuum to remove loose dust in between passes.	None	None

For more information on OSHA silica exposure guidelines please visit: <https://www.osha.gov/silica/>.

To conform to OSHA's regulations, contractors should use one of the following work methods when grinding concrete:

- **Grinding dry and using dust collection systems.** Make sure the dust extractor is appropriate for the grinder you are using - see our reference guide. Lavina Dust Extractors are equipped with air filters and Hepa filters H13 with efficiency of 99.99% at 0.3 microns. Furthermore, Lavina dust extractors feature the Longopac continuous bagging system for easier and safer dust disposal.
- **Grinding wet,** i.e. using water to minimize airborne dust. All Lavina grinders are equipped with integrated water delivery system that continuously feeds water to the floor.
- **Using protective masks or respirators,** approved for use with silica dust.

SELECT THE PROPER DUST EXTRACTOR FOR YOUR GRINDER

DUST EXTRACTOR	EFFICIENCY	HEPA FILTER	L7, L13 L14, L16	L21, L20, L20N	L25	L25L, L30L	L25G, L30G	L32, L32G	L38G
V20	99.9% AT 0.3 MICRONS	HEPA, H13 CLASS	X	X					
V25, 115V	99.9% AT 0.3 MICRONS	HEPA, H13 CLASS		X	X				
V25, 230V	99.9% AT 0.3 MICRONS	HEPA, H13 CLASS			X	X	X		
V32	99.9% AT 0.3 MICRONS	HEPA, H13 CLASS				X	X	X	
V20G	99.9% AT 0.3 MICRONS	HEPA, H13 CLASS	X	X					
V25G	99.9% AT 0.3 MICRONS	HEPA, H13 CLASS			X	X	X		
V32G	99.9% AT 0.3 MICRONS	HEPA, H13 CLASS					X	X	X
V38G	99.9% AT 0.3 MICRONS	HEPA, H13 CLASS						X	X



For complete technical specifications of Lavina equipment, please visit www.superabrasive.com.