



CementPro Respirable Crystalline Silica Sieve Analysis Declaration

Cal/OSHA regulates respirable crystalline silica to minimize workplace exposure, which can lead to health issues such as cancer and silicosis.

CementPro uses crystalline silica sand from two specific sources in our products, apart from the ASTM C144 plaster sand used in Deck Mud Pro and Wall Float Pro.

CementPro had these sands tested at a third-party lab following ASTM C136-19 "Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates" and ASTM C117-23 "Standard Test Method for Materials Finer than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing" protocols.

Health Product Declaration Collaborative (HPDC) offers a special conditions policy for form-specific hazards, including crystalline silica, focusing on particles of respirable size. This policy doesn't cover all inhalation hazards, but specifically targets particles of respirable size.

CementPro was required to report particle size distributions (D0.01, D10, D50 and D90) to qualify for this special condition. Respirable particles have aerodynamic diameters of less than 10 microns, and CementPro had to prove the proportion of particles with a diameter of less than 10 microns was restricted to limit the potential for respiration.

The following table summarizes the sieve analysis results for both sand sources used by CementPro:

Sieve No. (mm)	Cumulative % Retained	Cumulative % Passing
No. 4 (4.75)	0.0	100.0
No. 8 (2.36)	0.2 - 0.4	99.6 - 99.8
No. 16 (1.18)	1.3 - 1.6	98.4 - 98.7
No. 30 (600 μ m)	5.5 - 9.6	90.4 - 94.5
No. 50 (300 μ m)	49.4 - 64.3	35.7 - 50.6
No. 100 (150 μ m)	87.9 - 91.8	8.2 - 12.1
Material Finer than No. 200 (75 μ m)	1.3 - 1.7	

- For more information on HPDC special conditions policy for form-specific hazards, please visit: <https://www.hpd-collaborative.org/wp-content/uploads/2022/09/Form-specific-hazards-September-2022-FINAL.pdf>
- For more information on Cal/OSHA respirable crystalline silica standards and resources, please visit: <https://www.dir.ca.gov/dosh/respiratory-silica-FAQ.html>