Dust Collection Systems For Dry Mixing On-Site

Respirable dusts from dry mixing on site are a key concern on construction sites. Prolonged inhalation of Respirable Crystalline Silica RCS dust can lead to occupational asthma and COPD. When mixing dry powder with a solution, there is always an initial cloud of dust created as the powder is added to the mixing bucket. There are many accessible systems on the market or reduce or prevent dust release. These range from basic tools to semi-automatic mixing systems with permanent mounting positions for mixing and extraction.

Whale tail connected to 110v vacuum

Standard innovative mixing container with built in extraction

Ergonomic loading as well as innovative mixing/extraction

CONSIDERATIONS

- Need to ensure the vacuum control system has sufficient filtration for the dusts being extracted.
- Need to ensure the vacuum system is maintained and dust is emptied in a controlled manner (don't want to simply move the issue elsewhere – skips etc…)

BENEFITS

- Reduces / or eliminates the risk of releasing dry silica dust into the atmosphere.
- Cleaner solution on site, creating fewer housekeeping issues.
- Less spillage and therefore, less waste.
- Uses the hierarchy of risk management, meaning less reliant on PPE.

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